PayPal™

Invoicing Service API Guide

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Invoicing Service API Guide

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Contents

Preface

You can use the Invoicing Service API to create, send, and manage invoices using PayPal.

Documentation Feedback

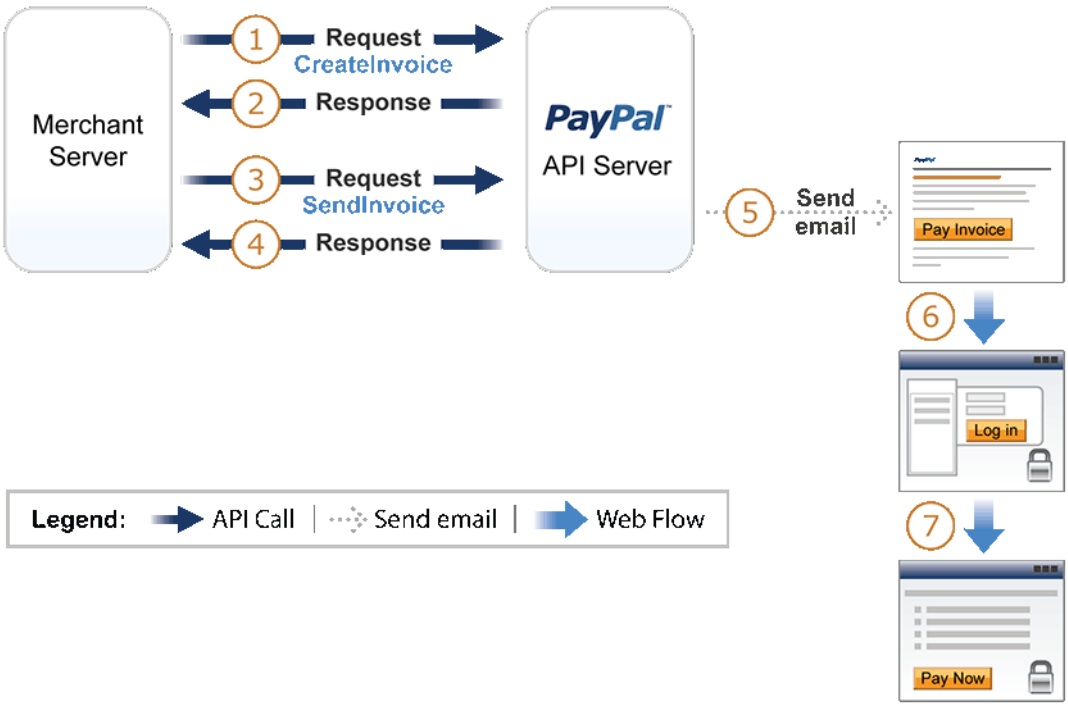
Help us improve this guide by sending feedback to:

documentationfeedback@paypal.com

1 Introduction to the Invoicing Service API

PayPal enables you to create and manage invoices. When you send an invoice, PayPal emails the receipient and allows him or her to pay with PayPal.

The following diagram shows the basic execution flow for creating and sending an invoice:



The circled numbers indicate actions that you take as well as actions taken by PayPal and your customer:

1. Specify the contents of the invoice in the `CreateInvoice` request and send the request to the `https://svcs.paypal.com/Invoice/CreateInvoice` endpoint.
2. Examine the response and verify that the ACK field contains SUCCESS.
3. Using the invoice ID in the response, create a `SendInvoice` request and send it to the `https://svcs.paypal.com/Invoice/SendInvoice` endpoint.
4. Examine the response and verify that the ACK field contains SUCCESS.

   NOTE: You can combine the creation and transmission of an invoice in the same request, which is `CreateAndSend`. After you create the request, send it to the `https://svcs.paypal.com/Invoice/CreateAndSendInvoice` endpoint.

5. If the `SendInvoice` request was successful, PayPal sends an invoice by email to the payer whose email you specified in the `CreateInvoice` or `CreateAndSendInvoice` request.
6. When your customer clicks **Pay Invoice** in the email, the customer's browser is redirected to PayPal and the customer is prompted to log in.
7. The customer can then pay on PayPal.

The contents of an invoice depend on what you specify in the `CreateInvoice`, or `CreateAndSend` requests. Following is an example invoice:

Logo

INVOICE

Fruits Packaging Inc.
Joan Hoang
3434 North Second Street
San Jose 95131
United States

Phone: 408 967 2020
Fax: 408 967 2020

jbui-us-business1@paypal.com
www.FruitsPackagingINc.com

Invoice number	0942
Invoice date	8/22/2011
Payment terms	Net 10
Due date	9/1/2011

Bill To
jbui-unilateral1@paypal.com
DEF packaging Inc.

Ship To
Selling Fruits
James Smith
5656 South Market Street
San Jose, CA 95131
United States

Date	Description	Quantity	Unit price	Amount
8/9/2011	Washington Apple - Apple From Washington State	1	$41.25	$41.25

Terms and conditions
Agree To Pay!!!

Note to recipient
Pay Now!!!

Subtotal	**$41.25**
Discount	**$-4.13**
Total	**$37.12 USD**

Sending Invoices on Behalf of a Merchant

You can send invoices on behalf of a merchant if you have permission to do so. There is no difference in how you set up your request for `CreateInvoice` or `CreateAndSendInvoice`, except that you specify the merchant's email address instead of your own in the request, and you include an additional header that indicates you have the permission of the third party to send invoices on their behalf.

The merchant grants you permission using their PayPal profile, or you request permission using the Permissions Service API. For more information about this API, see *PayPal Permissions Service* at PayPal Permissions Service.

Invoicing Service API Operations

The operations in the Invoicing Service API enable you to create and send invoices to your customers, as well manage existing invoices, which may or may not have been sent.

NOTE: Although you do not need to register your application with PayPal, you must have a valid app ID to use the Invoicing Service API. If you have an existing app ID, you can reuse it. See x.com to obtain an app ID.

Creating and Sending Invoices

API Operation	Description
`CreateInvoice`	Creates a new invoice.
`SendInvoice`	Sends an invoice to a customer.
`CreateAndSendInvoice`	Creates and sends an invoice, which is equivalent to the combination of the `CreateInvoice` operation followed by the `SendInvoice` operation.

Managing Invoices

API Operation	Description
`UpdateInvoice`	Updates an invoice.
`GetInvoiceDetails`	Obtains the contents of an invoice.
`CancelInvoice`	Cancels an invoice.
`SearchInvoices`	Searches for invoices based on specified criteria.
`MarkInvoiceAsPaid`	Marks an invoice as having been paid.

API Operation	Description
`MarkInvoiceAsUnpaid`	Marks an invoice as unpaid.
`MarkInvoiceAsRefunded`	Marks an invoice as having been refunded.

IPN Variables for Invoicing API Operations

PayPal sends IPN messages for invoice payments and canceled invoices. For more information about IPN, see the *Instant Payment Notification Guide*: https://cms.paypal.com/cms_content/US/en_US/files/developer/IPNGuide.pdf.

Invoice Payments

```
mc_gross: 37.12
protection_eligibility: Eligible
address_status: confirmed
payer_id: ABF644D44GSPJ
address_street: 5656 South Market Street
payment_date: 15:57:39 Sep 12, 2011 PDT
payment_status: Completed
invoice_id: INV2-VMYW-LQKA-QBGC-6YDE
charset: windows-1252
address_zip: 95131
first_name: Nick
mc_fee: 1.38
address_country_code: US
address_name: Selling Fruits
notify_version: 3.4
payer_status: verified
business: jbui-us-business1@paypal.com
address_country: United States
address_city: San Jose
verify_sign: AFcWxV21C7fd0v3bYYYRCpSSRl31A23x28hwIQCThw2nNi2s8MlV2o10
payer_email: jbui-us-personal1@paypal.com
txn_id: 68H067535A2789915
payment_type: instant
last_name: Ronald
address_state: CA
```

```
receiver_email: jbui-us-business1@paypal.com
payment_fee: 1.38
receiver_id: 9N3VVZS28ELHL
txn_type: invoice_payment
mc_currency: USD
residence_country: US
transaction_subject: Send the Reminder Soon.
invoice_number: 0151
payment_gross: 37.12
ipn_track_id: ogo4fwr-n.J7dGNgDiJzqg
```

Canceled Invoices

```
merchant_business_name: Fruits Packaging Inc.
merchant_first_name: Joan
notify_version: 3.4
txn_type: invoice_payer_cancel
invoice_number: 0021
charset: windows-1252
payer_email: jbui-us-personal1@paypal.com
payer_last_name: Bond
merchant_last_name: Joan
payer_first_name: Henry
merchant_email: jbui-us-business1@paypal.com
verify_sign: AiPC9BjkCyDFQXbSkoZcgqH3hpacAAV9zVNI.GLTI1sLOHpeeWp3oMQZ
invoice_id: INV2-UHWN-STXM-65B7-PT4R
ipn_track_id: 2eKZJ-cZftAHzSWbsS7qjQ
```

2 Invoicing Service API Examples

You can use the Invoicing Service API to create, send, update, cancel, or obtain details of invoices for yourself or third-party merchants. You can also search invoices, and mark them as paid, unpaid, or refunded.

HTTP Headers

Each request message includes HTTP headers specifying authentication, the application ID, the device ID or IP address, and the payload format or protocol (SOAP).

Adaptive Payments supports request bodies with JSON, NVP, and XML data formats for REST implementations. You can specify different formats for the request and response, such as sending the request in JSON and requesting an XML response.

For SOAP, you must also include a specific SOAP protocol header (see the SOAP messages section).

The following is an example of HTTP headers for NVP in Java for a web implementation:

```
headers.put("X-PAYPAL-SECURITY-USERID", "tok261_biz_api.abc.com");
headers.put("X-PAYPAL-SECURITY-PASSWORD","1244612379");
headers.put("X-PAYPAL-SECURITY-SIGNATURE","lkfg9groingghb4uw5"
headers.put("X-PAYPAL-DEVICE-IPADDRESS", "168.212.226.204");
headers.put("X-PAYPAL-REQUEST-DATA-FORMAT", "NV");
headers.put("X-PAYPAL-RESPONSE-DATA-FORMAT", "NV");
headers.put("X-PAYPAL-APPLICATION-ID", "APP-80W284485P519543T");
```

NOTE: HTTP headers are case sensitive.

Authentication

Use your PayPal account API credentials to authenticate your application. Your API credentials include an API username and API password. If you are using 3-token authentication, you must also specify an API signature. If you are using a certificate, the certificate is used with the username and password; the signature is not used. To specify API credentials, include the following HTTP headers in your request message (observing case sensitivity):

HTTP Headers for Authentication

Header	Description
X-PAYPAL-SECURITY-USERID	Your API username
X-PAYPAL-SECURITY-PASSWORD	Your API password
X-PAYPAL-SECURITY-SIGNATURE	Your API signature, which is required only if you use 3-token authorization; a certificate does not use a signature
X-PAYPAL-SECURITY-SUBJECT	Third-party permission specification, which specifies the email address or phone number (for mobile) of the party on whose behalf you are calling the API operation. The subject must grant you third-party access in their PayPal profile. **NOTE:** Resources specified by the API operation, such as a payment or preapproval identified by a key, must be owned by the subject granting the third-party permission.

Specifying JSON, NVP, or XML Data Formats

Use the HTTP header X-PAYPAL-REQUEST-DATA-FORMAT to specify the data format the request body. You can send messages using JSON, NVP or straight XML.

Use the and X-PAYPAL-RESPONSE-DATA-FORMAT headers to specify the data format for the response.

For SOAP messages, refer to the next section.

HTTP Headers for JSON, NVP, and XML Data Formats

Header	Description
X-PAYPAL-REQUEST-DATA-FORMAT	The payload format for the request. Allowable values are: • NV – Name-value pairs • XML – Extensible markup language • JSON – JavaScript object notation
X-PAYPAL-RESPONSE-DATA-FORMAT	The payload format for the response. Allowable values are: • NV – Name-value pairs • XML – Extensible markup language • JSON – JavaScript object notation

SOAP Messages

To use Adaptive Payments with SOAP, include the HTTP headers for authentication as described in the section Authentication and the application ID as described in the next section.

In addition, include the `X-PAYPAL-MESSAGE-PROTOCOL` header with a `SOAP11` value.

The following is a header example for an Adaptive Payments API call for a SOAP message:

```
headers.put("X-PAYPAL-SECURITY-USERID", "tok261_biz_api.abc.com");
headers.put("X-PAYPAL-SECURITY-PASSWORD","1244612379");
headers.put("X-PAYPAL-SECURITY-SIGNATURE","lkfg9groingghb4uw5"
headers.put("X-PAYPAL-DEVICE-IPADDRESS", "168.212.226.204");
headers.put("X-PAYPAL-MESSAGE-PROTOCOL", "SOAP11");
headers.put("X-PAYPAL-APPLICATION-ID","APP-80W284485P519543T");
```

Below are the service name, port type, binding and location for SOAP as defined in the Adaptive Payments WSDL.

```
<wsdl:service name="AdaptivePayments">
     <wsdl:port name="AdaptivePaymentsSOAP11_http"
     <binding="services:AdaptivePaymentsSOAP11Binding">
     <soap:address location="https://svcs.paypal.com/AdaptivePayments" />
```

Specifying Application and Device Information

You also must identify the application. You can optionally identify other information associated with the client and the API version:

HTTP Headers for Application and Device identification

Header	Description
`X-PAYPAL-APPLICATION-ID`	*(Required)* Your application's identification, which is issued by PayPal. **NOTE:** Check X.com for which application ID must be defined for working in the sandbox.
`X-PAYPAL-DEVICE-ID`	*(Optional)* Client's device ID, such as a mobile device's IMEI number or a web browser cookie.
`X-PAYPAL-DEVICE-IPADDRESS`	*(Required)* Client's IP address.
`X-PAYPAL-SERVICE-VERSION`	*(Optional)* The version of an API operation to use. By default, PayPal executes a request with the current version of an API operation. **NOTE:** PayPal recommends not specifying a version unless it is absolutely required.

Creating an Invoice

This example shows how to create an invoice using `CreateInvoice`.

```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DATA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://svcs.sandbox.paypal.com/Invoice/CreateInvoice
-d
"requestEnvelope.errorLanguage=en_US
&invoice.merchantEmail=merchant%40domain.com
&invoice.payerEmail=jbui-us-business2%40paypal.com
&invoice.currencyCode=USD
&invoice.itemList.item(0).name=Banana+Leaf+-+001
&invoice.itemList.item(0).description=Banana+Leaf
&invoice.itemList.item(0).quantity=1
&invoice.itemList.item(0).unitPrice=1
&invoice.itemList.item(0).taxName=Tax1
&invoice.itemList.item(0).taxRate=10.25
&invoice.paymentTerms=Net10
&invoice.logoUrl=https%3A%2F%2Fwww.example.com%2FYour_logo.jpg"
```

Sending an Invoice

This example shows how to send an invoice using `SendInvoice`. The invoice ID, which is in the response to `CreateInvoice`, identifies the invoice to send.

```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DATA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://svcs.sandbox.paypal.com/Invoice/SendInvoice
-d
"requestEnvelope.errorLanguage=en_US
&invoiceID=INV2-RVY9-UWTW-64HZ-BR9W"
```

Creating and Sending an Invoice

This example shows how to create and send an invoice using `CreateAndSendInvoice`. It is equivalent to creating an invoice and sending it.

```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DATA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://svcs.sandbox.paypal.com/Invoice/CreateAndSendInvoice
-d
"requestEnvelope.errorLanguage=en_US
&invoice.merchantEmail=merchant%40domain.com
&invoice.payerEmail=jbui-us-business2%40paypal.com
&invoice.currencyCode=USD
&invoice.itemList.item(0).name=Banana+Leaf+-+001
&invoice.itemList.item(0).description=Banana+Leaf
&invoice.itemList.item(0).quantity=1
&invoice.itemList.item(0).unitPrice=1
&invoice.itemList.item(0).taxName=Tax1
&invoice.itemList.item(0).taxRate=10.25
&invoice.paymentTerms=Net10
&invoice.logoUrl=https%3A%2F%2Fwww.example.com%2FYour_logo.jpg"
```

Updating an Invoice

This example shows how to send an invoice using `UpdateInvoice`. If the invoice has not been sent, the invoice continues to be a draft; otherwise, the invoice is resent.

NOTE: When updating an invoice, in addition to the updated fields, you must also provide all of the original fields used to create the invoice.

```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DATA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://sandbox.svcs.paypal.com/Invoice/UpdateInvoice
-d
"requestEnvelope.errorLanguage=en_US
&invoice.merchantEmail=merchant%40domain.com
```

```
&invoice.payerEmail=jbui-us-business2%40paypal.com
&invoice.currencyCode=USD
&invoice.itemList.item(0).name=Banana+Leaf+--+001
&invoice.itemList.item(0).description=Banana+Leaf
&invoice.itemList.item(0).quantity=3
&invoice.itemList.item(0).unitPrice=1
&invoice.itemList.item(0).taxName=Tax1
&invoice.itemList.item(0).taxRate=10.25
&invoice.paymentTerms=Net10
&invoice.logoUrl=https%3A%2F%2Fwww.example.com%2FYour_logo.jpg"
```

Obtaining Invoice Details

This example shows how to obtain invoice details using `GetInvoiceDetails`.

```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DATA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://svcs.sandbox.paypal.com/Invoice/GetInvoiceDetails
-d
"requestEnvelope.detailLevel=ReturnAll
&requestEnvelope.errorLanguage=en_US
&invoiceID=INV2-RVY9-UWTW-64HZ-BR9W"
```

Canceling an Invoice

This example shows how to cancel an invoice using `CancelInvoice`. PayPal can notifiy the payer that the message has been canceled.

```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DA TA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://sandbox.svcs.paypal.com/Invoice/CancelInvoice
-d
"requestEnvelope.errorLanguage=en_US
&invoiceID=INV2-RVY9-UWTW-64HZ-BR9W"
&subject=Cancel+it
&noteForPayer=Cancel+it+now
&sendCopyToMerchant=true"
```

Searching for Invoices

This example shows how to create and send an invoice using `CreateAndSendInvoice`. You must have created the original invoice either for yourself or on behalf of another merchant.

PayPal can return a maximum of 100 invoices per page. In this example, only the first 10 invoices that you created using the Invoicing Service API for the `jb-us-seller1@paypal.com` account are returned:

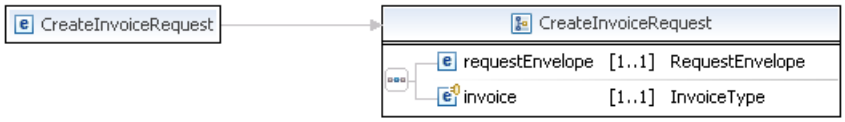
```
curl -s --insecure
-H "X-PAYPAL-SECURITY-USERID: Your_API_username"
-H "X-PAYPAL-SECURITY-PASSWORD: Your_API_password"
-H "X-PAYPAL-SECURITY-SIGNATURE: Your_API_signature"
-H "X-PAYPAL-REQUEST-DATA-FORMAT: NV"
-H "X-PAYPAL-RESPONSE-DATA-FORMAT: NV"
-H "X-PAYPAL-APPLICATION-ID: Your_AppID"
https://svcs.sandbox.paypal.com/Invoice/SearchInvoices
-d
"requestEnvelope.errorLanguage=en_US
&merchantEmail=jb-us-seller1%40paypal.com
&parameters.origin=API
&parameters.email=jb-us-seller1%40paypal.com
&page=1
&pageSize=10"
```

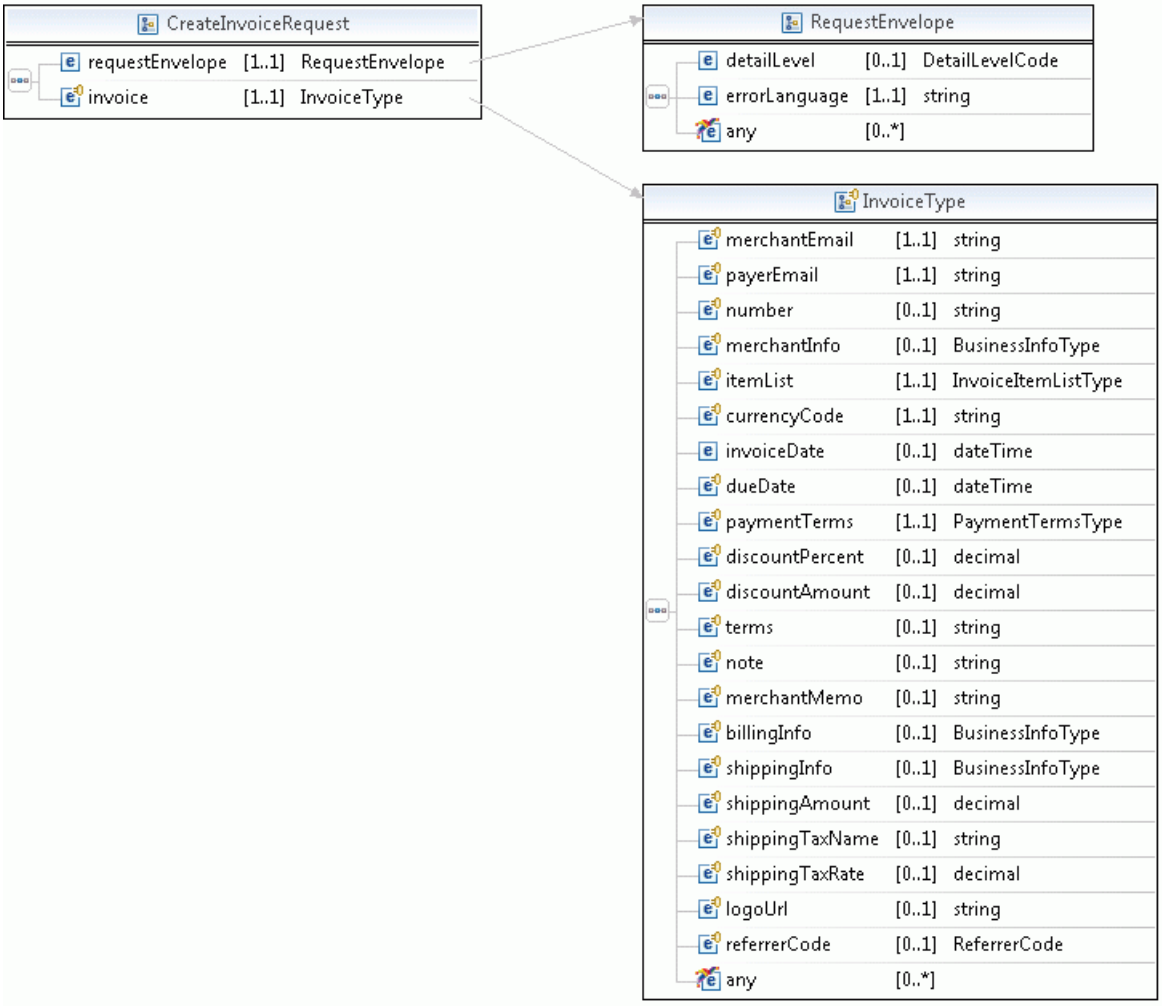
3 CreateInvoice API Operation

Use the `CreateInvoice` API operation to create a new invoice. The call includes merchant, payer, and API caller information, in addition to invoice detail. The response to the call contains an invoice ID and URL.

CreateInvoiceRequest Message

Use the `CreateInvoiceRequest` message to create a new invoice. The merchant issuing the invoice, and the partner, if any, making the call, must have a PayPal account in good standing.




CreateInvoiceRequest
requestEnvelope [1..1] RequestEnvelope
invoice [1..1] InvoiceType
RequestEnvelope
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errorLanguage [1..1] string
any [0..*]
InvoiceType
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payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
currencyCode [1..1] string
invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
shippingAmount [0..1] decimal
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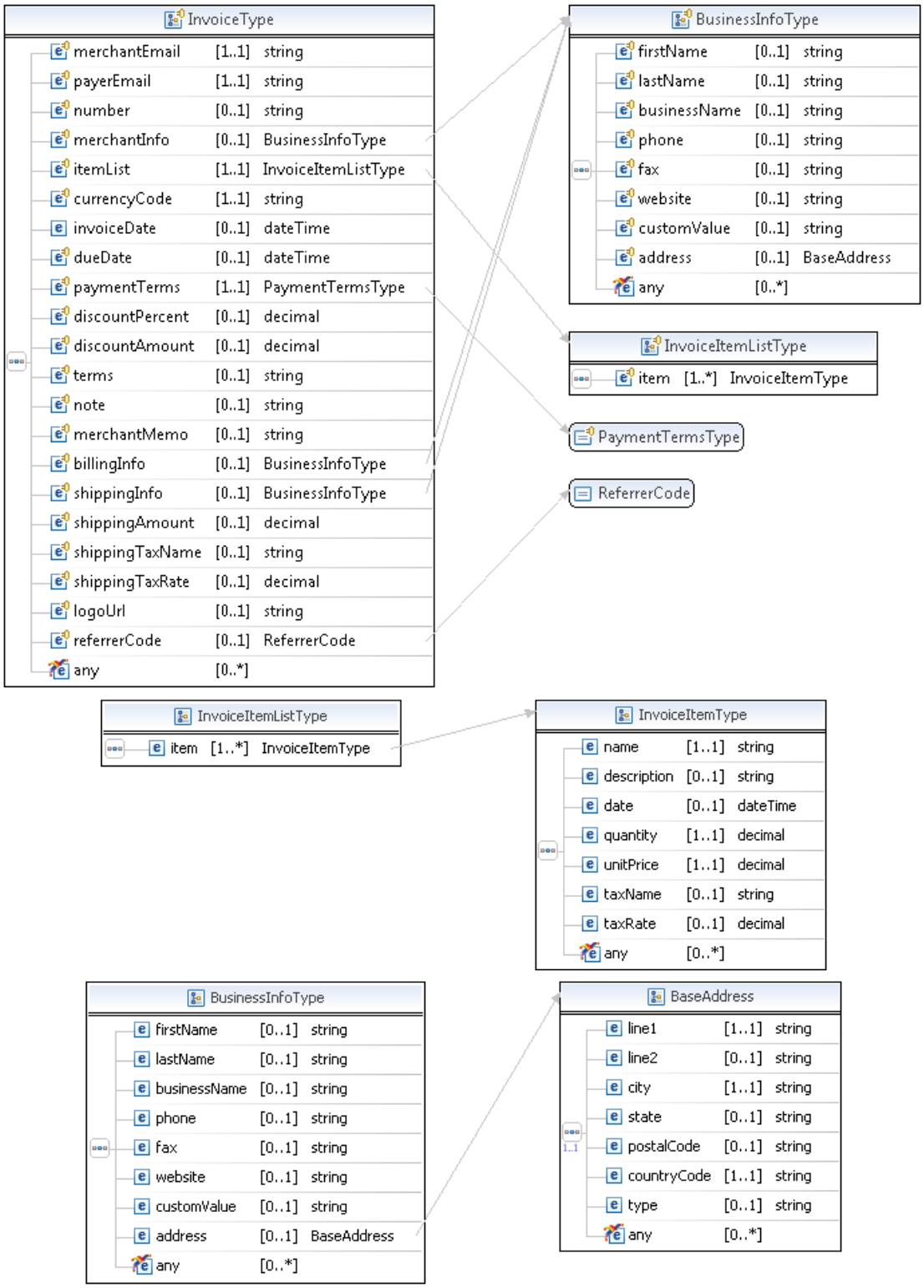
shippingTaxRate [0..1] decimal
logoUrl [0..1] string
referrerCode [0..1] ReferrerCode
any [0..*]


InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
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invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
shippingAmount [0..1] decimal
shippingTaxName [0..1] string
shippingTaxRate [0..1] decimal
logoUrl [0..1] string
referrerCode [0..1] ReferrerCode
any [0..*]
BusinessInfoType
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lastName [0..1] string
businessName [0..1] string
phone [0..1] string
fax [0..1] string
website [0..1] string
customValue [0..1] string
address [0..1] BaseAddress
any [0..*]
InvoiceItemListType
item [1..*] InvoiceItemType
PaymentTermsType
ReferrerCode
InvoiceItemListType
item [1..*] InvoiceItemType
InvoiceItemType
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description [0..1] string
date [0..1] dateTime
quantity [1..1] decimal
unitPrice [1..1] decimal
taxName [0..1] string
taxRate [0..1] decimal
any [0..*]
BusinessInfoType
firstName [0..1] string
lastName [0..1] string
businessName [0..1] string
phone [0..1] string
fax [0..1] string
website [0..1] string
customValue [0..1] string
address [0..1] BaseAddress
any [0..*]
BaseAddress
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line2 [0..1] string
city [1..1] string
state [0..1] string
postalCode [0..1] string
countryCode [1..1] string
type [0..1] string
any [0..*]

RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

CreateInvoiceRequest Fields

Field	Description
`invoice`	`inv:InvoiceType` *(Required)* Merchant, payer, and invoice information.
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.

InvoiceType Fields

Field	Description
`merchantEmail`	`xs:string` *(Required)* Merchant email address.
`payerEmail`	`xs:string` *(Required)* Payer email address.
`number`	`xs:string` *(Optional)* Unique identifier for the invoice.
`merchantInfo`	`inv:BusinessInfoType` Company contact information of the merchant company sending the invoice.
`itemList`	`inv:InvoiceItemListType` *(Required)* List of items included in this invoice.
`currencyCode`	`xs:string` *(Required)* Currency used for all invoice item amounts and totals.
`invoiceDate`	`xs:dateTime` *(Optional)* Date on which the invoice is enabled.

Field	Description
`dueDate`	`xs:dateTime` *(Optional)* Date on which the invoice payment is due.
`paymentTerms`	`inv:PaymentTermsType` *(Required)* Terms by which the invoice payment is due. It is one of the following values: • `DueOnReceipt` – Payment is due when the payer receives the invoice. • `DueOnDateSpecified` – Payment is due on the date specified in the invoice. • `Net10` – Payment is due 10 days from the invoice date. • `Net15` – Payment is due 15 days from the invoice date. • `Net30` – Payment is due 30 days from the invoice date. • `Net45` – Payment is due 45 days from the invoice date.
`discountPercent`	`xs:decimal` *(Optional)* Discount percent applied to the invoice.
`discountAmount`	`xs:decimal` *(Optional)* Discount amount applied to the invoice, if any. If `discountPercent` is provided, `discountAmount` is ignored.
`terms`	`xs:string` *(Optional)* General terms for the invoice.
`note`	`xs:string` *(Optional)* Note to the payer company.
`merchantMemo`	`xs:string` *(Optional)* Memo for bookkeeping that is private to the merchant.
`billingInfo`	`inv:BusinessInfoType` *(Optional)* Billing information for the payer.
`shippingInfo`	`inv:BusinessInfoType` *(Optional)* Shipping information for the payer.
`shippingAmount`	`xs:decimal` *(Optional)* Cost of shipping.
`shippingTaxName`	`xs:string` *(Optional)* Name of the applicable tax on shipping cost.
`shippingTaxRate`	`xs:decimal` (Optional) Rate of the applicable tax on shipping cost.
`logoURL`	`xs:string` *(Optional)* Complete URL to an external image used as the logo, if any.
`ReferrerCode`	`xs:string` *(Optional)* Build Notification (BN) code for tracking transactions with a particular partner..

Field	Description
`customAmountLabel`	`xs:string` Label used to display custom amount value. If a value is entered for `customAmountLabel`, then `customAmountValue` cannot be empty.
`customAmountValue`	`xs:decimal` Value of custom amount.If a value is entered for `customAmountValue`, then `customAmountLabel` cannot be empty.

BusinessInfoType Fields

Field	Description
`firstName`	`xs:string` *(Optional)* First name of the company contact.
`lastName`	`xs:string` *(Optional)* Last name of the company contact.
`businessName`	`xs:string` *(Optional)* Company business name.
`phone`	`xs:string` *(Optional)* Phone number for contacting the company.
`fax`	`xs:string` *(Optional)* Fax number used by the company.
`website`	`xs:string` *(Optional)* Website used by the company.
`customValue`	`xs:string` *(Optional)* Custom value to be displayed in the contact information details..
`address`	`common:BaseAddress` *(Optional)* Street address of the company.

BaseAddress Fields

Field	Description
`city`	`xs:string` *(Required)* City of the address.
`countryCode`	`xs:string` *(Required)* Country code of the address.

Field	Description
`line1`	`xs:string` *(Required)* First line of the address.
`line2`	`xs:string` *(Optional)* Second line of the street address.
`postalCode`	`xs:string` *(Optional)* Postal code of the address.
`state`	`xs:string` *(Optional)* State for the address.
`type`	`xs:string` *(Optional)* Type of address.

InvoiceItemListType Fields

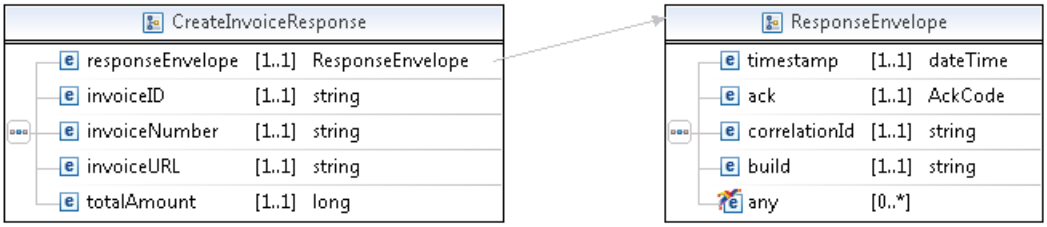
Field	Description
`item`	`inv:InvoiceItemType` *(Required)* Invoice item.

InvoiceItemType Fields

Field	Description
`name`	`xs:string` *(Required)* SKU or name of the item. Character length and limitations: 30 characters maximum
`description`	`xs:string`, *(Optional)* Item description.
`date`	`xs:dateTime` (Optional) Date on which the product or service was provided.
`quantity`	`xs:decimal` *(Required)* Item count. Valid values are 0 to 10.000.
`unitPrice`	`xs:decimal` *(Required)* Price of the item, in the currency specified by the invoice.
`taxName`	`xs:string` *(Optional)* Name of the applicable tax.
`taxRate`	`xs:decimal` *(Optional)* Rate of the applicable tax.

CreateInvoiceResponse Message

The `CreateInvoiceResponse` message contains information returned in response to a `CreateInvoiceRequest` message. The response contains an invoice ID and the URL to the invoice on the PayPal system.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

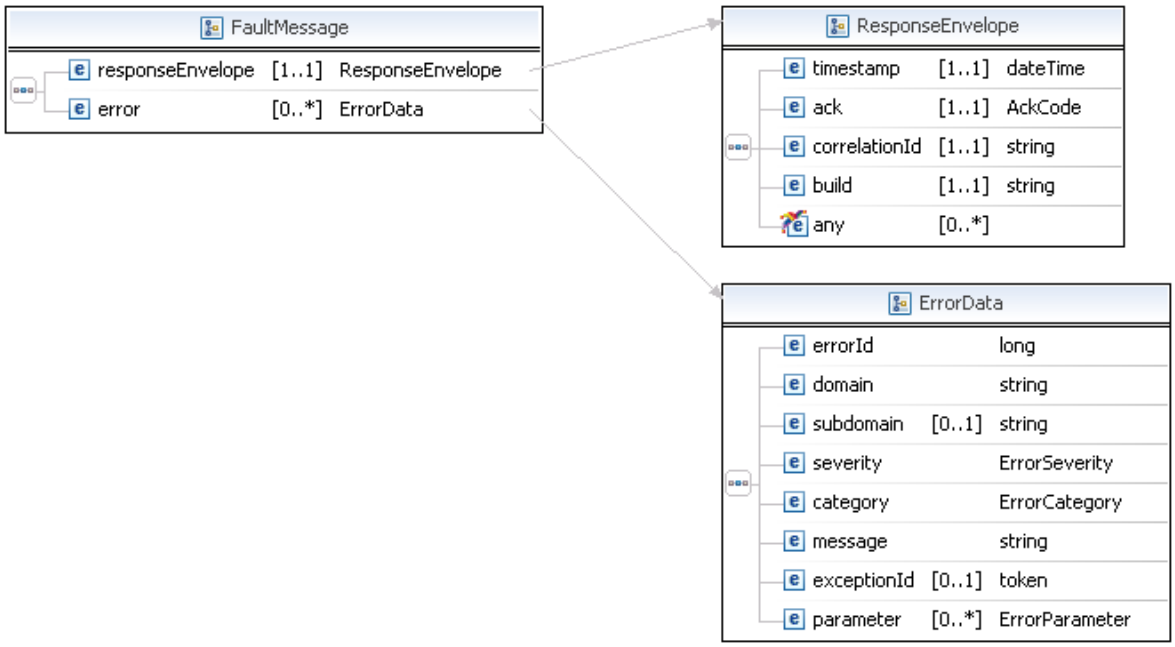
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

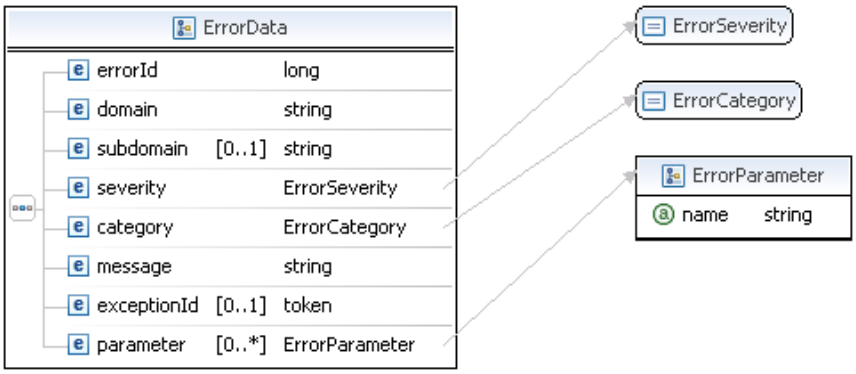
CreateInvoiceResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceId`	`xs:string` ID of the created invoice.
`invoiceNumber`	`xs:string` Invoice number of the created invoice.
`invoiceURL`	`xs:string` URL location where merchants view the invoice details.
`totalAmount`	`xs:long` The total amount of the invoice.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.





FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.

Field	Description
severity	common:ErrorSeverity The severity of the error encountered. Possible values are: • Error – Processing of the request was interrupted • Warning – Processing of the request was completed
subdomain	This field is not used.

ResponseEnvelope Fields

Field	Description
ack	common:AckCode Acknowledgement code. It is one of the following values: • Success – The operation completed successfully. • Failure – The operation failed. • SuccessWithWarning – The operation completed successfully; however, there is a warning message. • FailureWithWarning – The operation failed with a warning message.
build	xs:string Build number. It is used only by PayPal Merchant Technical Support.
correlationId	xs:string Correlation identifier. It is a 13-character, alphanumeric string (for example, db87c705a910e) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.
timestamp	xs:datetime Date on which the response was sent, for example: 2012-04-02T22:33:35.774-07:00 **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

CreateInvoice API Errors

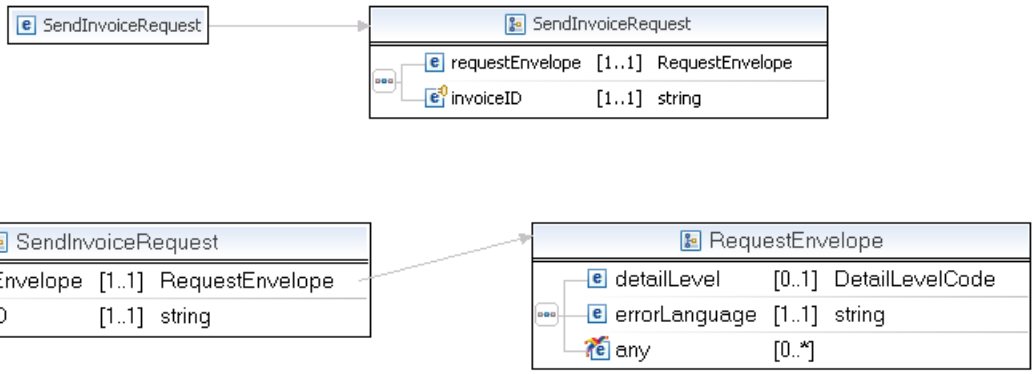
Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
570045	The number of items exceeds this allowed limit.	
570046	The due date occurs before the invoice date.	
570047	The invoice date is earlier than todays date.	
570048	A tax name can only be associated with one unique tax rate on a single invoice; the following tax name is associated to different rates on this invoice.	
570049	The total amount for the invoice cannot be negative.	
570050	The merchant's PayPal account cannot be the same as the payer's account; merchant and payer email addresses presently link to the same account.	
570051	Invoice cannot have more than 10 different taxes.	
570054	Invalid token.	
570058	Invalid token.	
570059	Invoice number is too long.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580045	Merchant does not have a PayPal account associated with this email address.	
580046	An invoice already exists for the merchant with this invoice number.	

4 SendInvoice API Operation

Use the `SendInvoice` API operation to send an invoice to a payer, and notify the payer of the pending invoice.

SendInvoiceRequest Message

Use the `SendInvoiceRequest` message to send an invoice to a payer, and notify the payer of the pending invoice.



RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

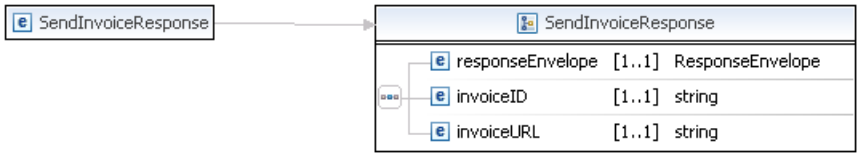
SendInvoiceRequest Fields

The table below lists the fields for the `SendInvoiceRequest` message.

Field	Description
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.
`invoiceID`	`xs:string` *(Required)* ID of the invoice to send.

SendInvoiceResponse Message

The `SendInvoiceResponse` message contains information returned in response to a `SendInvoiceRequest` message. It indicates whether the invoice was sent successfully.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

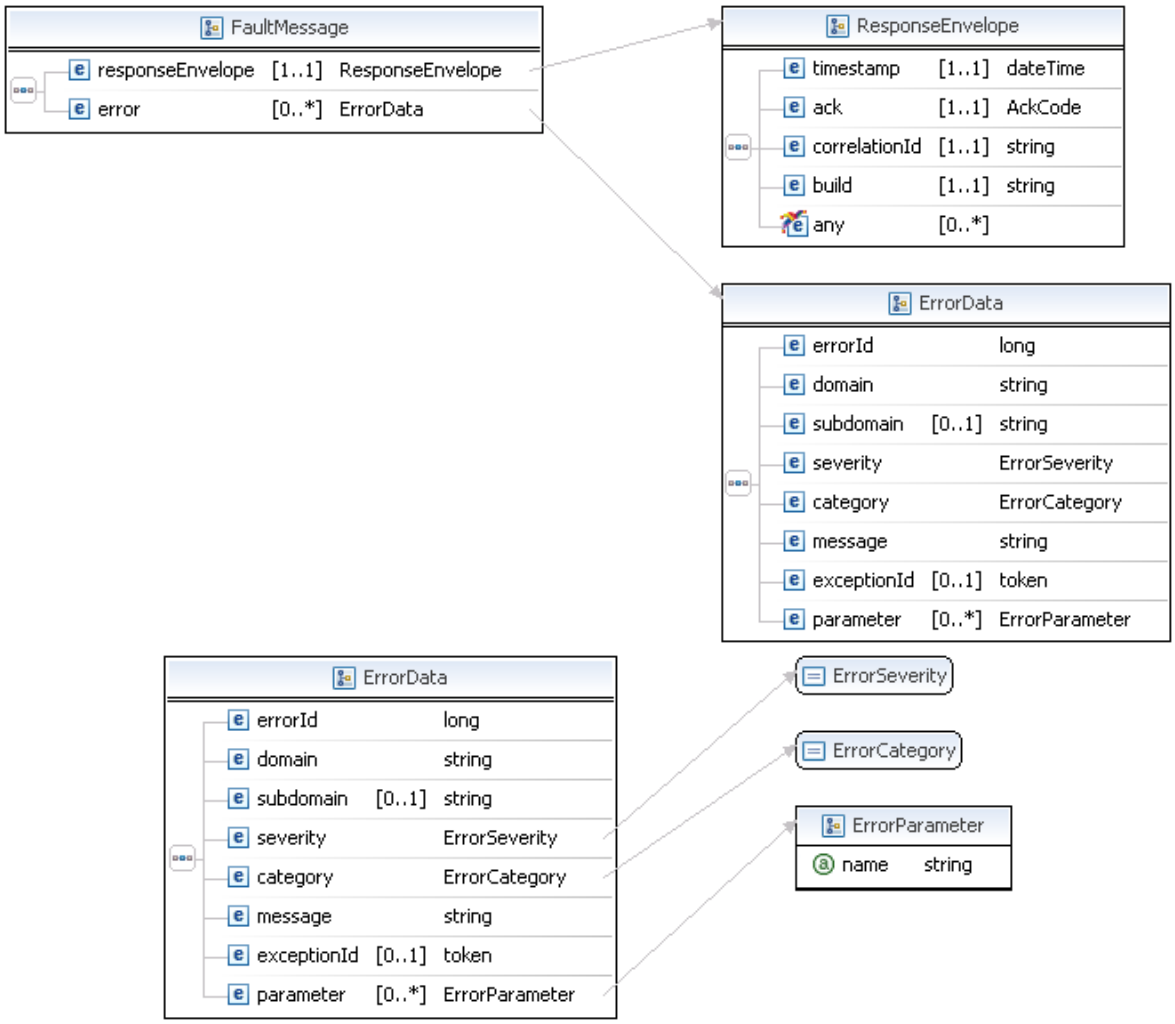
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

SendInvoiceResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceID`	`xs:string` ID of the invoice being sent.
`invoiceURL`	`xs:string` Location where merchants view the invoice details.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.



FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

Send Invoice API Errors

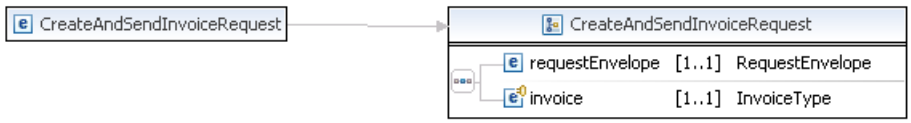
Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570052	You cannot send this invoice because it has already been paid.	
570053	You cannot send this invoice because it has already been canceled.	
570058	Invalid token.	
570064	An invoice that has already been sent cannot be sent again.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580047	Invoice does not exist.	

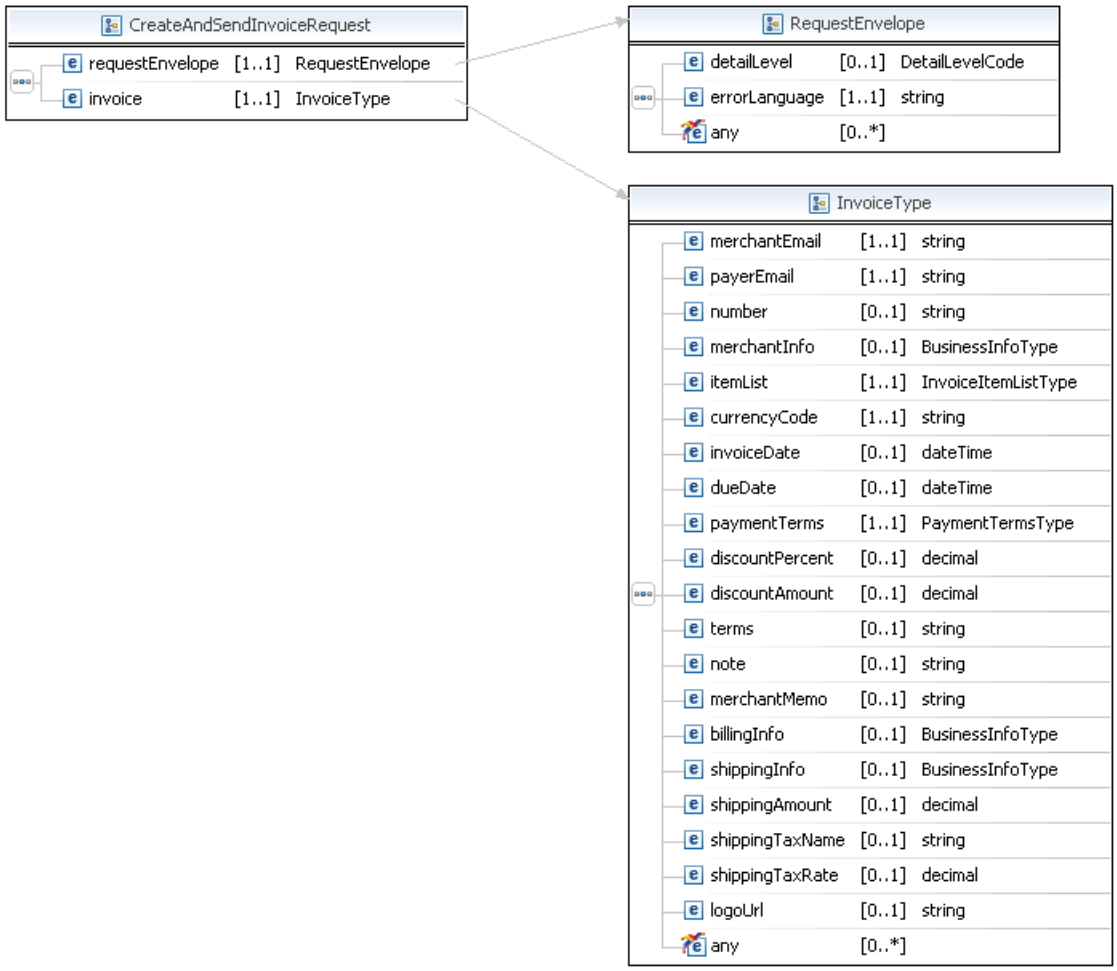
5 CreateAndSendInvoice API Operation

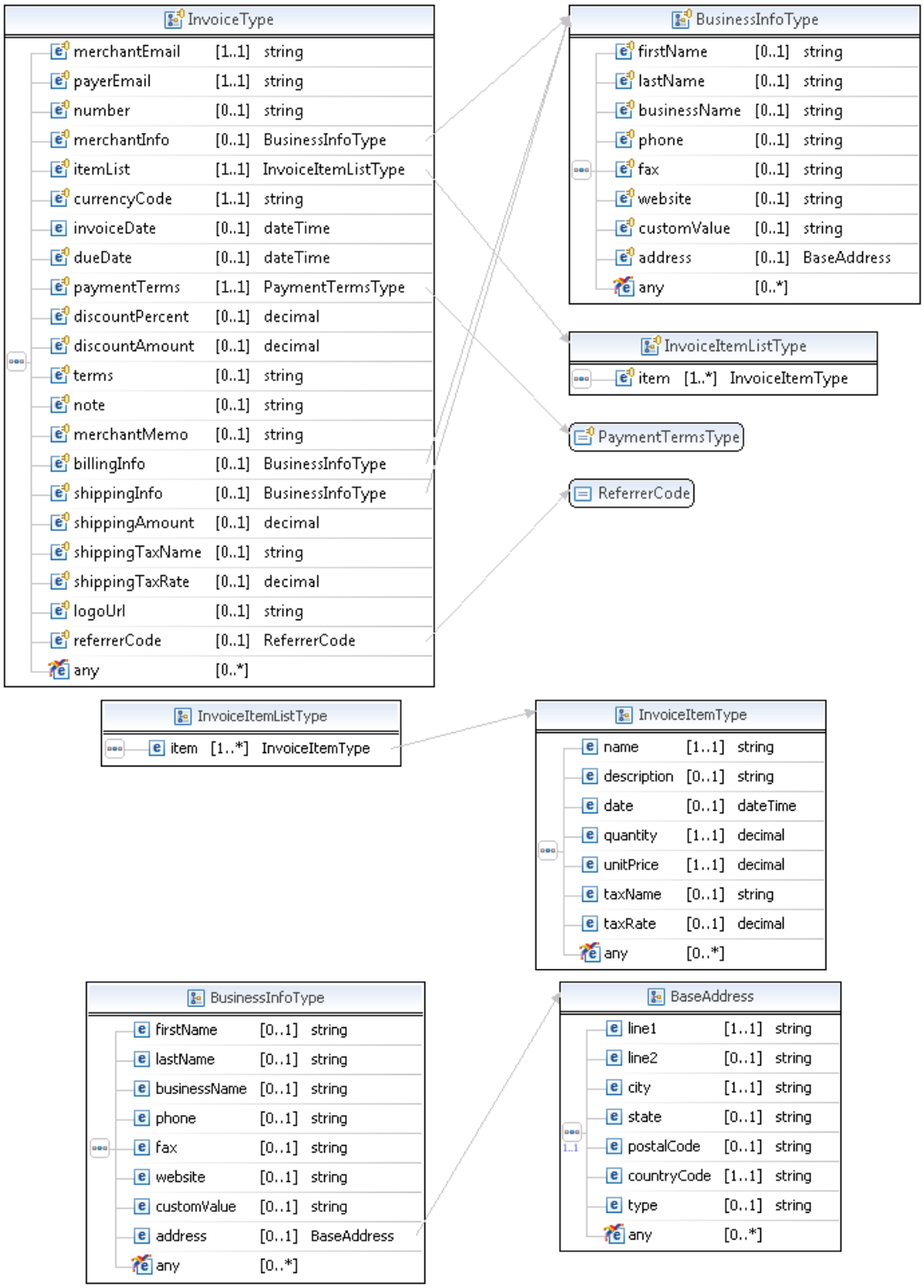
Use the `CreateAndSendInvoice` API operation to create and send an invoice.

CreateAndSendInvoiceRequest Message

Use the `CreateAndSendInvoiceRequest` message to create and send a new invoice. The requester should authenticate the caller and verify that the merchant requesting the invoice has an existing PayPal account in good standing. Once the invoice is created, PayPal sends it to the specified payer, who is notified of the pending invoice.




CreateAndSendInvoiceRequest
requestEnvelope [1..1] RequestEnvelope
invoice [1..1] InvoiceType
RequestEnvelope
detailLevel [0..1] DetailLevelCode
errorLanguage [1..1] string
any [0..*]
InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
currencyCode [1..1] string
invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
shippingAmount [0..1] decimal
shippingTaxName [0..1] string
shippingTaxRate [0..1] decimal
logoUrl [0..1] string
any [0..*]


InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
currencyCode [1..1] string
invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
shippingAmount [0..1] decimal
shippingTaxName [0..1] string
shippingTaxRate [0..1] decimal
logoUrl [0..1] string
referrerCode [0..1] ReferrerCode
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BusinessInfoType
firstName [0..1] string
lastName [0..1] string
businessName [0..1] string
phone [0..1] string
fax [0..1] string
website [0..1] string
customValue [0..1] string
address [0..1] BaseAddress
any [0..*]
InvoiceItemListType
item [1..*] InvoiceItemType
PaymentTermsType
ReferrerCode
InvoiceItemListType
item [1..*] InvoiceItemType
InvoiceItemType
name [1..1] string
description [0..1] string
date [0..1] dateTime
quantity [1..1] decimal
unitPrice [1..1] decimal
taxName [0..1] string
taxRate [0..1] decimal
any [0..*]
BusinessInfoType
firstName [0..1] string
lastName [0..1] string
businessName [0..1] string
phone [0..1] string
fax [0..1] string
website [0..1] string
customValue [0..1] string
address [0..1] BaseAddress
any [0..*]
BaseAddress
line1 [1..1] string
line2 [0..1] string
city [1..1] string
state [0..1] string
postalCode [0..1] string
countryCode [1..1] string
type [0..1] string
any [0..*]

RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

CreateAndSendInvoiceRequest Fields

Field	Description
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.
`invoice`	`inv:InvoiceType` *(Required)* Merchant, payer, and invoice information.

InvoiceType Fields

Field	Description
`merchantEmail`	`xs:string` *(Required)* Merchant email address.
`payerEmail`	`xs:string` *(Required)* Payer email address.
`number`	`xs:string` *(Optional)* Unique identifier for the invoice.
`merchantInfo`	`inv:BusinessInfoType` Company contact information of the merchant company sending the invoice.
`itemList`	`inv:InvoiceItemListType` *(Required)* List of items included in this invoice.
`currencyCode`	`xs:string` *(Required)* Currency used for all invoice item amounts and totals.
`invoiceDate`	`xs:dateTime` *(Optional)* Date on which the invoice is enabled.

Field	Description
`dueDate`	`xs:dateTime` *(Optional)* Date on which the invoice payment is due.
`paymentTerms`	`inv:PaymentTermsType` *(Required)* Terms by which the invoice payment is due. It is one of the following values: • `DueOnReceipt` – Payment is due when the payer receives the invoice. • `DueOnDateSpecified` – Payment is due on the date specified in the invoice. • `Net10` – Payment is due 10 days from the invoice date. • `Net15` – Payment is due 15 days from the invoice date. • `Net30` – Payment is due 30 days from the invoice date. • `Net45` – Payment is due 45 days from the invoice date.
`discountPercent`	`xs:decimal` *(Optional)* Discount percent applied to the invoice.
`discountAmount`	`xs:decimal` *(Optional)* Discount amount applied to the invoice, if any. If `discountPercent` is provided, `discountAmount` is ignored.
`terms`	`xs:string` *(Optional)* General terms for the invoice.
`note`	`xs:string` *(Optional)* Note to the payer company.
`merchantMemo`	`xs:string` *(Optional)* Memo for bookkeeping that is private to the merchant.
`billingInfo`	`inv:BusinessInfoType` *(Optional)* Billing information for the payer.
`shippingInfo`	`inv:BusinessInfoType` *(Optional)* Shipping information for the payer.
`shippingAmount`	`xs:decimal` *(Optional)* Cost of shipping.
`shippingTaxName`	`xs:string` *(Optional)* Name of the applicable tax on shipping cost.
`shippingTaxRate`	`xs:decimal` (Optional) Rate of the applicable tax on shipping cost.
`logoURL`	`xs:string` *(Optional)* Complete URL to an external image used as the logo, if any.
`ReferrerCode`	`xs:string` *(Optional)* Build Notification (BN) code for tracking transactions with a particular partner..

Field	Description
`customAmountLabel`	`xs:string` Label used to display custom amount value. If a value is entered for `customAmountLabel`, then `customAmountValue` cannot be empty.
`customAmountValue`	`xs:decimal` Value of custom amount.If a value is entered for `customAmountValue`, then `customAmountLabel` cannot be empty.

BusinessInfoType Fields

Field	Description
`firstName`	`xs:string` *(Optional)* First name of the company contact.
`lastName`	`xs:string` *(Optional)* Last name of the company contact.
`businessName`	`xs:string` *(Optional)* Company business name.
`phone`	`xs:string` *(Optional)* Phone number for contacting the company.
`fax`	`xs:string` *(Optional)* Fax number used by the company.
`website`	`xs:string` *(Optional)* Website used by the company.
`customValue`	`xs:string` *(Optional)* Custom value to be displayed in the contact information details..
`address`	`common:BaseAddress` *(Optional)* Street address of the company.

BaseAddress Fields

Field	Description
`city`	`xs:string` *(Required)* City of the address.
`countryCode`	`xs:string` *(Required)* Country code of the address.

Field	Description
`line1`	`xs:string` *(Required)* First line of the address.
`line2`	`xs:string` *(Optional)* Second line of the street address.
`postalCode`	`xs:string` *(Optional)* Postal code of the address.
`state`	`xs:string` *(Optional)* State for the address.
`type`	`xs:string` *(Optional)* Type of address.

InvoiceItemListType Fields

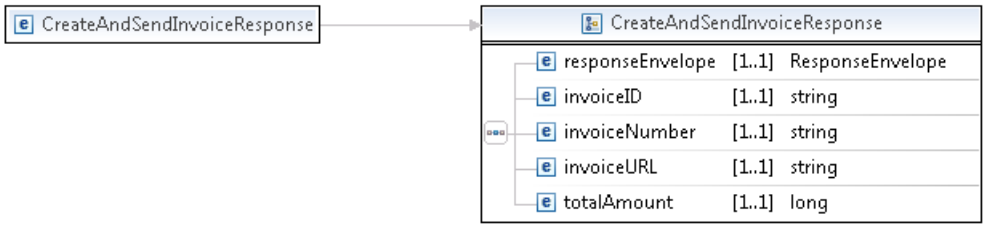
Field	Description
`item`	`inv:InvoiceItemType` *(Required)* Invoice item.

InvoiceItemType Fields

Field	Description
`name`	`xs:string` *(Required)* SKU or name of the item. Character length and limitations: 30 characters maximum
`description`	`xs:string`, *(Optional)* Item description.
`date`	`xs:dateTime` (Optional) Date on which the product or service was provided.
`quantity`	`xs:decimal` *(Required)* Item count. Valid values are 0 to 10.000.
`unitPrice`	`xs:decimal` *(Required)* Price of the item, in the currency specified by the invoice.
`taxName`	`xs:string` *(Optional)* Name of the applicable tax.
`taxRate`	`xs:decimal` *(Optional)* Rate of the applicable tax.

CreateAndSendInvoiceResponse Message

The `CreateAndSendInvoiceResponse` message contains information returned in response to a `CreateAndSendInvoiceRequest` message. The response contains an invoice ID and the URL to the invoice on the PayPal system, and indicates whether the invoice was sent successfully.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

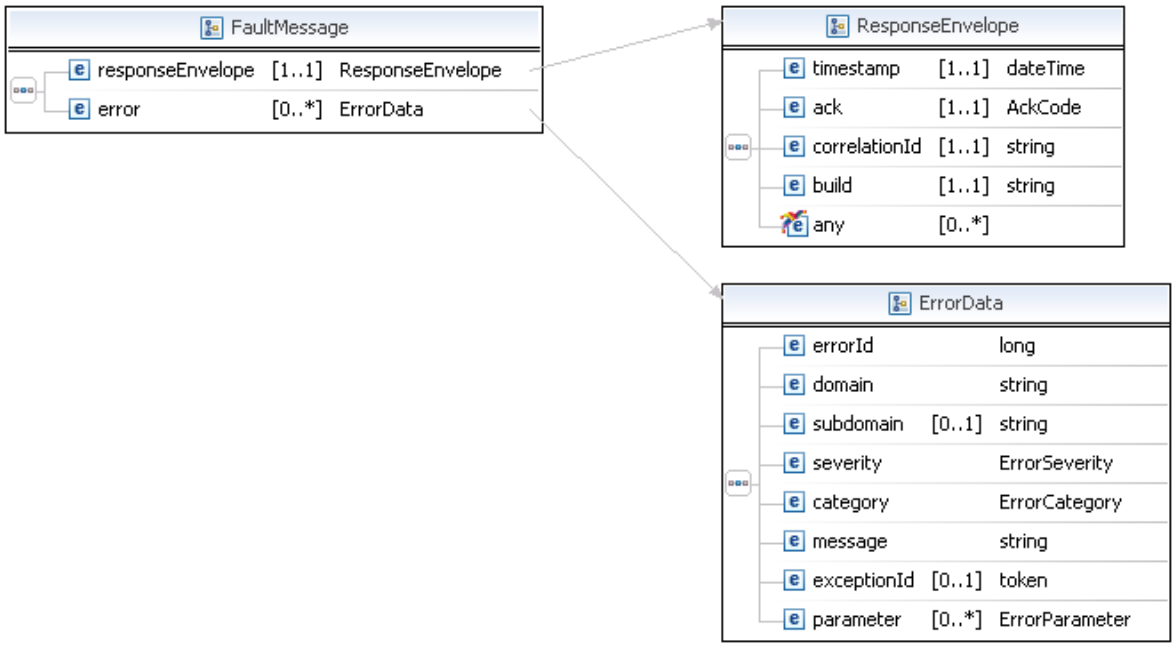
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

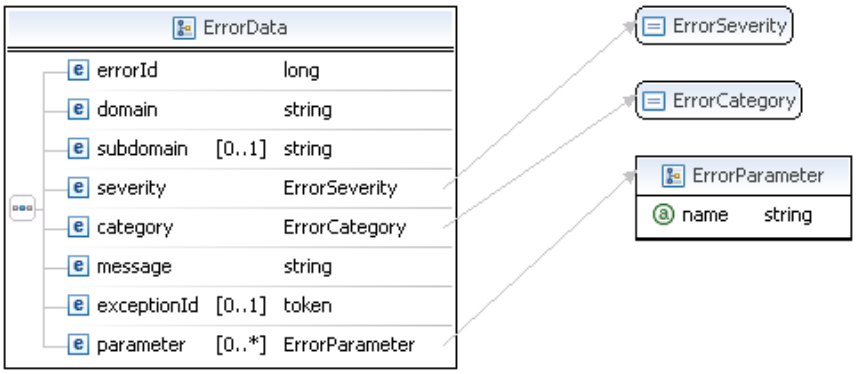
CreateAndSendInvoiceResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceID`	`xs:string` ID of the created invoice.
`invoiceNumber`	`xs:string` Number of the created invoice.
`invoiceURL`	`xs:string` URL location where merchants view the invoice details.
`totalAmount`	`xs:long` The total amount of the invoice.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.





FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.

Field	Description
severity	common:ErrorSeverity The severity of the error encountered. Possible values are: • Error – Processing of the request was interrupted • Warning – Processing of the request was completed
subdomain	This field is not used.

ResponseEnvelope Fields

Field	Description
ack	common:AckCode Acknowledgement code. It is one of the following values: • Success – The operation completed successfully. • Failure – The operation failed. • SuccessWithWarning – The operation completed successfully; however, there is a warning message. • FailureWithWarning – The operation failed with a warning message.
build	xs:string Build number. It is used only by PayPal Merchant Technical Support.
correlationId	xs:string Correlation identifier. It is a 13-character, alphanumeric string (for example, db87c705a910e) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.
timestamp	xs:datetime Date on which the response was sent, for example: 2012-04-02T22:33:35.774-07:00 **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

CreateAndSendInvoice API Errors

Code	Message	Additional Information
520002	Internal error.	

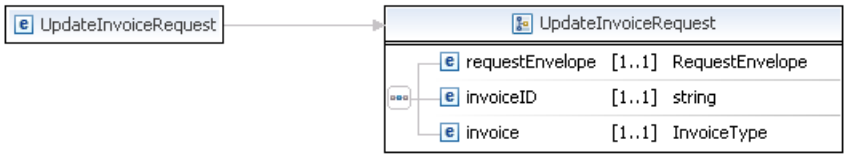
Code	Message	Additional Information
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
570045	The number of items exceeds this allowed limit.	
570046	The due date occurs before the invoice date.	
570047	The invoice date is earlier than todays date.	
570048	A tax name can only be associated with one unique tax rate on a single invoice; the following tax name is associated to different rates on this invoice.	
570049	The total amount for the invoice cannot be negative.	
570050	The merchant's PayPal account cannot be the same as the payer's account; merchant and payer email addresses presently link to the same account.	
570051	Invoice cannot have more than 10 different taxes.	
570054	Invalid token.	
570058	Invalid token.	
570059	Invoice number is too long.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580045	Merchant does not have a PayPal account associated with this email address.	
580046	An invoice already exists for the merchant with this invoice number.	

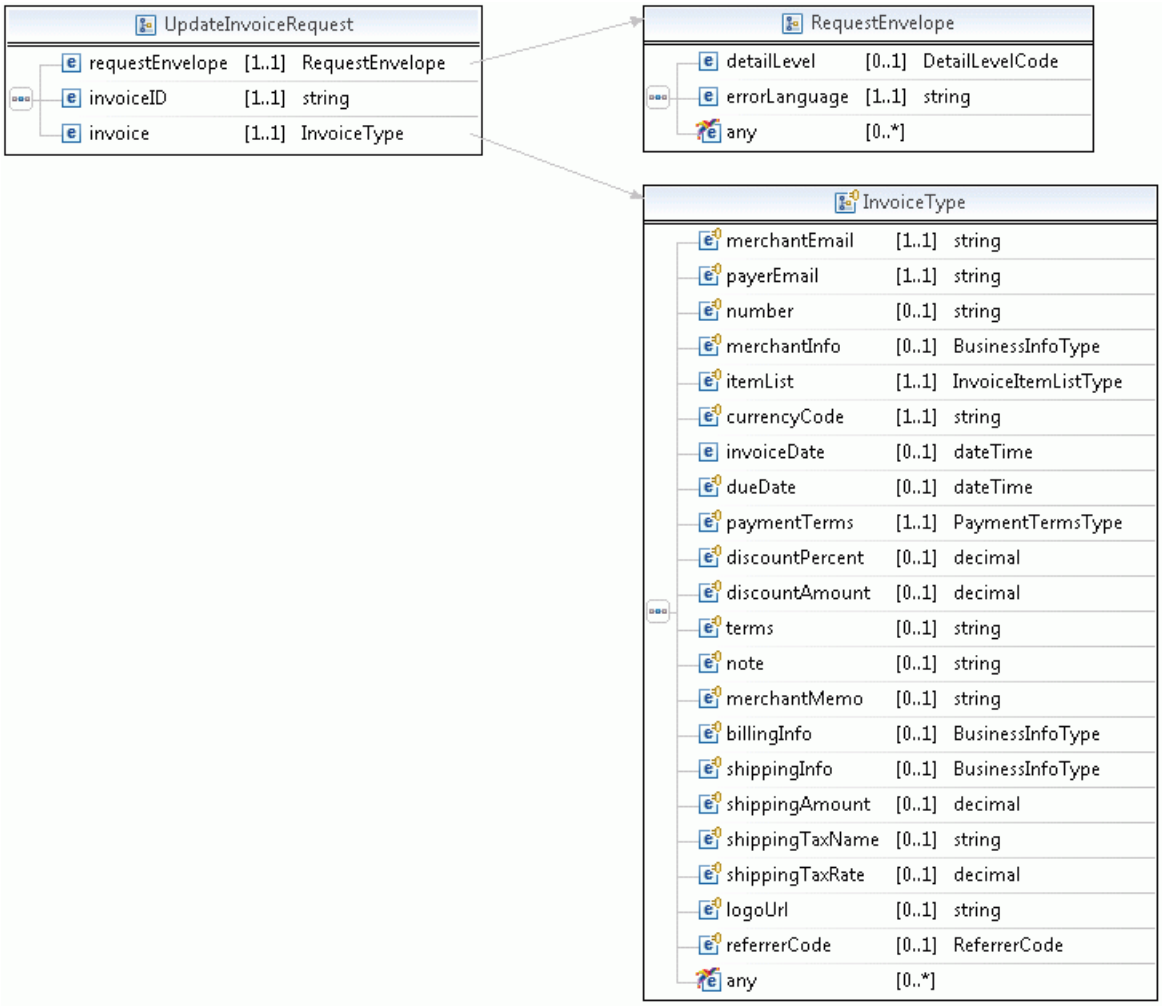
6 UpdateInvoice API Operation

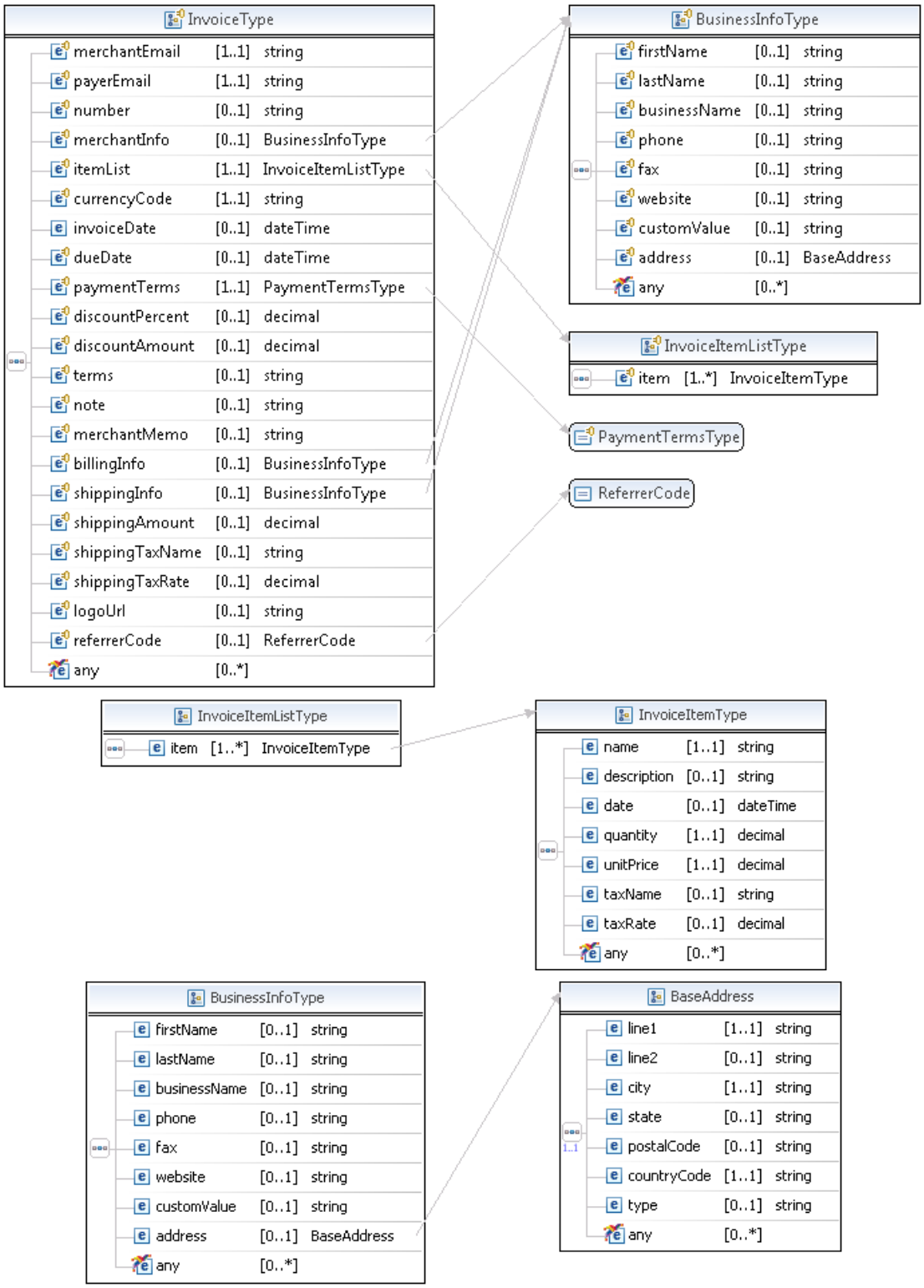
Use the `UpdateInvoice` API operation to update an invoice.

UpdateInvoiceRequest Message

Use the `UpdateInvoiceRequest` message to update an invoice.




UpdateInvoiceRequest
requestEnvelope [1..1] RequestEnvelope
invoiceID [1..1] string
invoice [1..1] InvoiceType
RequestEnvelope
detailLevel [0..1] DetailLevelCode
errorLanguage [1..1] string
any [0..*]
InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
currencyCode [1..1] string
invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
shippingAmount [0..1] decimal
shippingTaxName [0..1] string
shippingTaxRate [0..1] decimal
logoUrl [0..1] string
referrerCode [0..1] ReferrerCode
any [0..*]


InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
currencyCode [1..1] string
invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
shippingAmount [0..1] decimal
shippingTaxName [0..1] string
shippingTaxRate [0..1] decimal
logoUrl [0..1] string
referrerCode [0..1] ReferrerCode
any [0..*]
BusinessInfoType
firstName [0..1] string
lastName [0..1] string
businessName [0..1] string
phone [0..1] string
fax [0..1] string
website [0..1] string
customValue [0..1] string
address [0..1] BaseAddress
any [0..*]
InvoiceItemListType
item [1..*] InvoiceItemType
PaymentTermsType
ReferrerCode
InvoiceItemListType
item [1..*] InvoiceItemType
InvoiceItemType
name [1..1] string
description [0..1] string
date [0..1] dateTime
quantity [1..1] decimal
unitPrice [1..1] decimal
taxName [0..1] string
taxRate [0..1] decimal
any [0..*]
BusinessInfoType
firstName [0..1] string
lastName [0..1] string
businessName [0..1] string
phone [0..1] string
fax [0..1] string
website [0..1] string
customValue [0..1] string
address [0..1] BaseAddress
any [0..*]
BaseAddress
line1 [1..1] string
line2 [0..1] string
city [1..1] string
state [0..1] string
postalCode [0..1] string
countryCode [1..1] string
type [0..1] string
any [0..*]

RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

UpdateInvoiceRequest Fields

Field	Description
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.
`invoiceID`	`xs:string` *(Required)* ID of the invoice to update.
`invoice`	`inv:InvoiceType` *(Required)* Merchant, payer, and invoice information.

InvoiceType Fields

Field	Description
`merchantEmail`	`xs:string` *(Required)* Merchant email address.
`payerEmail`	`xs:string` *(Required)* Payer email address.
`number`	`xs:string` *(Optional)* Unique identifier for the invoice.
`merchantInfo`	`inv:BusinessInfoType` Company contact information of the merchant company sending the invoice.
`itemList`	`inv:InvoiceItemListType` *(Required)* List of items included in this invoice.
`currencyCode`	`xs:string` *(Required)* Currency used for all invoice item amounts and totals.

Field	Description
`invoiceDate`	`xs:dateTime` *(Optional)* Date on which the invoice is enabled.
`dueDate`	`xs:dateTime` *(Optional)* Date on which the invoice payment is due.
`paymentTerms`	`inv:PaymentTermsType` *(Required)* Terms by which the invoice payment is due. It is one of the following values: • `DueOnReceipt` – Payment is due when the payer receives the invoice. • `DueOnDateSpecified` – Payment is due on the date specified in the invoice. • `Net10` – Payment is due 10 days from the invoice date. • `Net15` – Payment is due 15 days from the invoice date. • `Net30` – Payment is due 30 days from the invoice date. • `Net45` – Payment is due 45 days from the invoice date.
`discountPercent`	`xs:decimal` *(Optional)* Discount percent applied to the invoice.
`discountAmount`	`xs:decimal` *(Optional)* Discount amount applied to the invoice, if any. If `discountPercent` is provided, `discountAmount` is ignored.
`terms`	`xs:string` *(Optional)* General terms for the invoice.
`note`	`xs:string` *(Optional)* Note to the payer company.
`merchantMemo`	`xs:string` *(Optional)* Memo for bookkeeping that is private to the merchant.
`billingInfo`	`inv:BusinessInfoType` *(Optional)* Billing information for the payer.
`shippingInfo`	`inv:BusinessInfoType` *(Optional)* Shipping information for the payer.
`shippingAmount`	`xs:decimal` *(Optional)* Cost of shipping.
`shippingTaxName`	`xs:string` *(Optional)* Name of the applicable tax on shipping cost.
`shippingTaxRate`	`xs:decimal` (Optional) Rate of the applicable tax on shipping cost.
`logoURL`	`xs:string` *(Optional)* Complete URL to an external image used as the logo, if any.

Field	Description
`ReferrerCode`	`xs:string` *(Optional)* Build Notification (BN) code for tracking transactions with a particular partner..
`customAmountLabel`	`xs:string` Label used to display custom amount value. If a value is entered for `customAmountLabel`, then `customAmountValue` cannot be empty.
`customAmountValue`	`xs:decimal` Value of custom amount.If a value is entered for `customAmountValue`, then `customAmountLabel` cannot be empty.

BusinessInfoType Fields

Field	Description
`firstName`	`xs:string` *(Optional)* First name of the company contact.
`lastName`	`xs:string` *(Optional)* Last name of the company contact.
`businessName`	`xs:string` *(Optional)* Company business name.
`phone`	`xs:string` *(Optional)* Phone number for contacting the company.
`fax`	`xs:string` *(Optional)* Fax number used by the company.
`website`	`xs:string` *(Optional)* Website used by the company.
`customValue`	`xs:string` *(Optional)* Custom value to be displayed in the contact information details..
`address`	`common:BaseAddress` *(Optional)* Street address of the company.

InvoiceItemType Fields

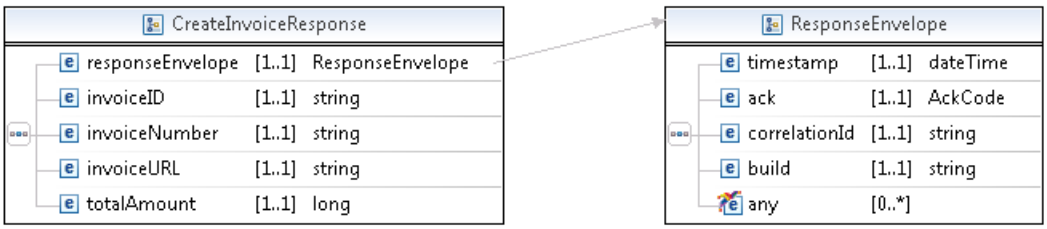
Field	Description
`item`	`inv:InvoiceItemType` *(Required)* Invoice item.

InvoiceItemType Fields

Field	Description
`name`	`xs:string` *(Required)* SKU or name of the item. Character length and limitations: 30 characters maximum
`description`	`xs:string`, *(Optional)* Item description.
`date`	`xs:dateTime` (Optional) Date on which the product or service was provided.
`quantity`	`xs:decimal` *(Required)* Item count. Valid values are 0 to 10.000.
`unitPrice`	`xs:decimal` *(Required)* Price of the item, in the currency specified by the invoice.
`taxName`	`xs:string` *(Optional)* Name of the applicable tax.
`taxRate`	`xs:decimal` *(Optional)* Rate of the applicable tax.

UpdateInvoiceResponse Message

The `UpdateInvoiceResponse` message contains information returned in response to an `UpdateInvoiceRequest` message.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

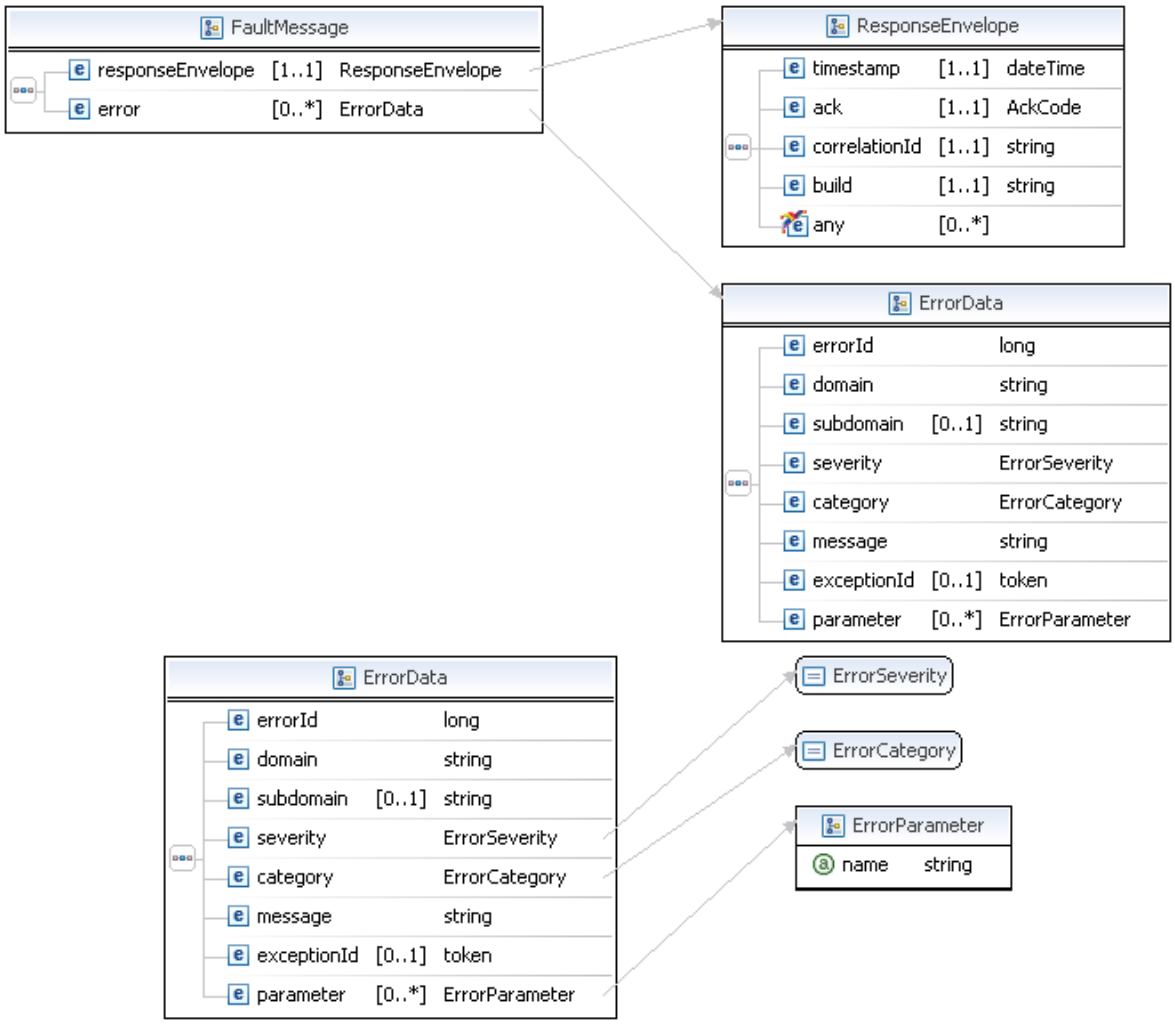
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

UpdateInvoiceResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceId`	`xs:string` ID of the updated invoice.
`invoiceNumber`	`xs:string` Invoice number of the updated invoice.
`invoiceURL`	`xs:string` URL location where merchants view the updated invoice details.
`totalAmount`	`xs:long` The total amount of the invoice.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.



FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

UpdateInvoice API Errors

Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570045	The number of items exceeds this allowed limit.	
570046	The due date occurs before the invoice date.	
570047	The invoice date is earlier than todays date.	
570048	A tax name can only be associated with one unique tax rate on a single invoice; the following tax name is associated to different rates on this invoice.	
570049	The total amount for the invoice cannot be negative.	
570050	The merchant's PayPal account cannot be the same as the payer's account; merchant and payer email addresses presently link to the same account.	
570051	Invoice cannot have more than 10 different taxes.	

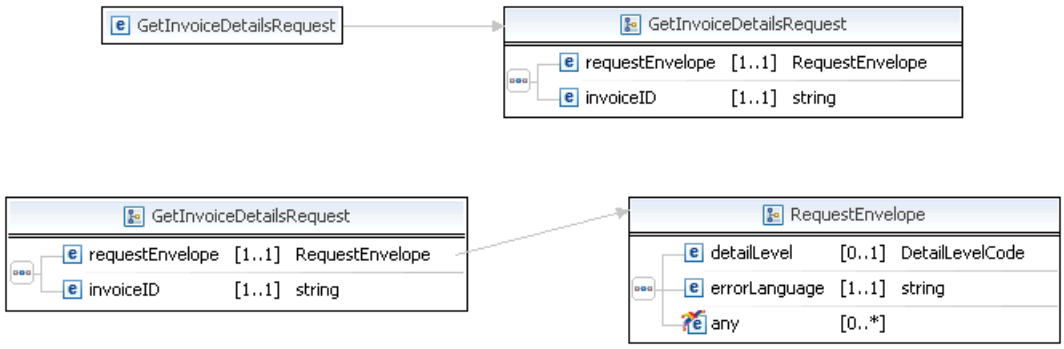
Code	Message	Additional Information
570058	Invalid token.	
570059	Invoice number is too long.	
570060	The status of the invoice is such that it can no longer be updated.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580046	An invoice already exists for the merchant with this invoice number.	
580047	Invoice does not exist.	

7 GetInvoiceDetails API Operation

Use the `GetInvoiceDetails` API operation to get detailed information about an invoice.

GetInvoiceDetailsRequest Message

Use the `GetInvoiceDetailsRequest` message to get detailed information about an invoice.



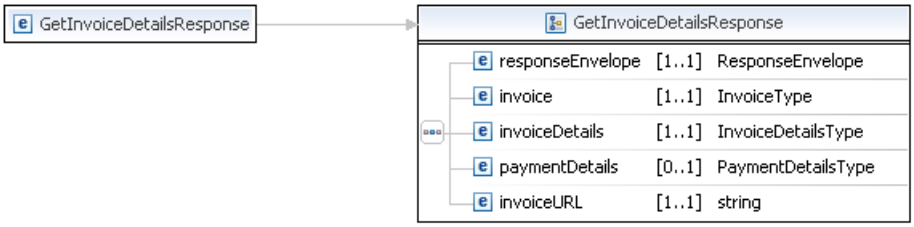
RequestEnvelope Fields

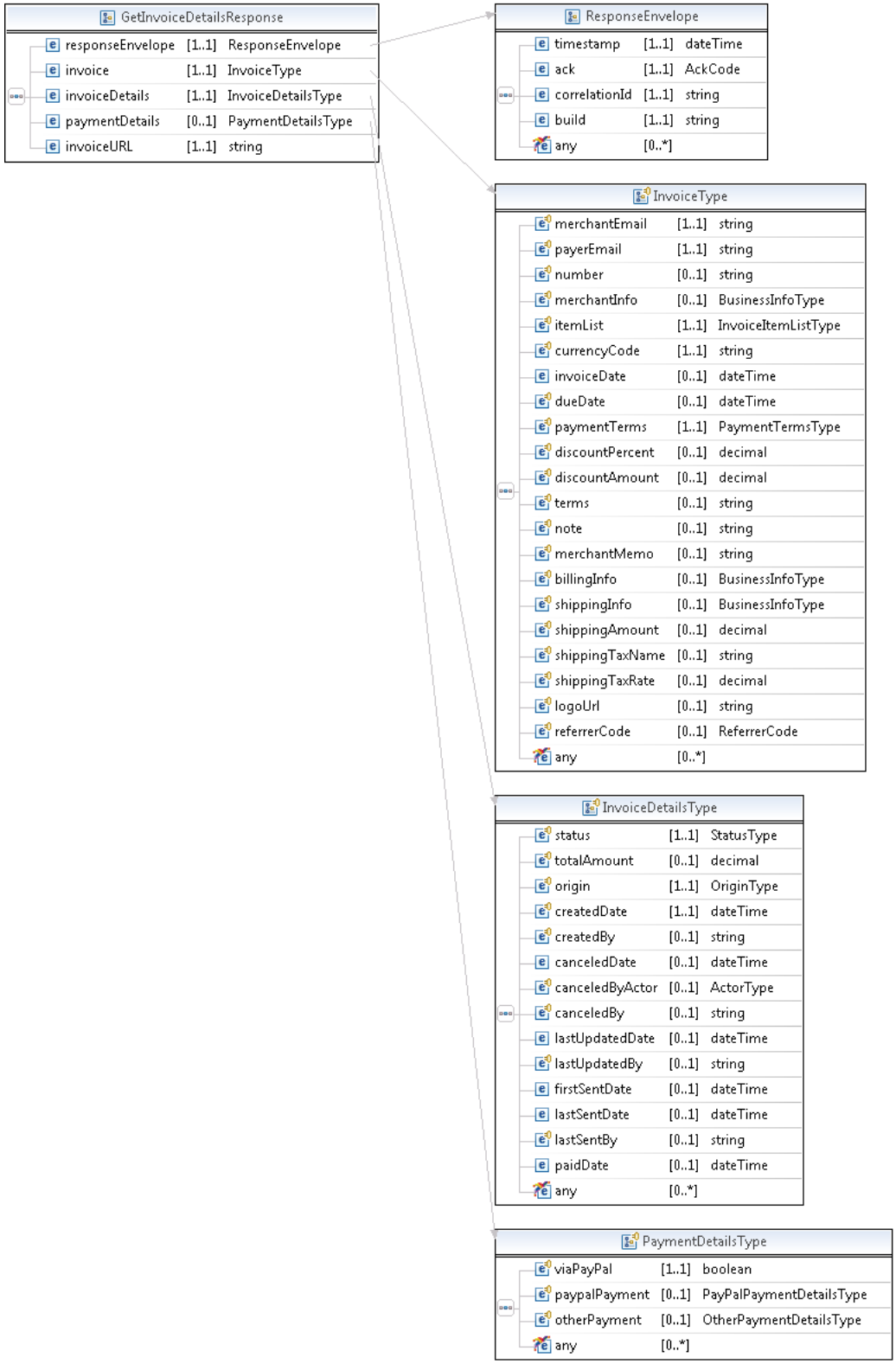
Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

GetInvoiceDetailsRequest Fields

Field	Description
`invoiceID`	`xs:string` *(Required)* ID of the invoice to retrieve.
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.

GetInvoiceDetailsResponse Message




GetInvoiceDetailsResponse
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invoice [1..1] InvoiceType
invoiceDetails [1..1] InvoiceDetailsType
paymentDetails [0..1] PaymentDetailsType
invoiceURL [1..1] string
ResponseEnvelope
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ack [1..1] AckCode
correlationId [1..1] string
build [1..1] string
any [0..*]
InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
currencyCode [1..1] string
invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
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discountAmount [0..1] decimal
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paidDate [0..1] dateTime
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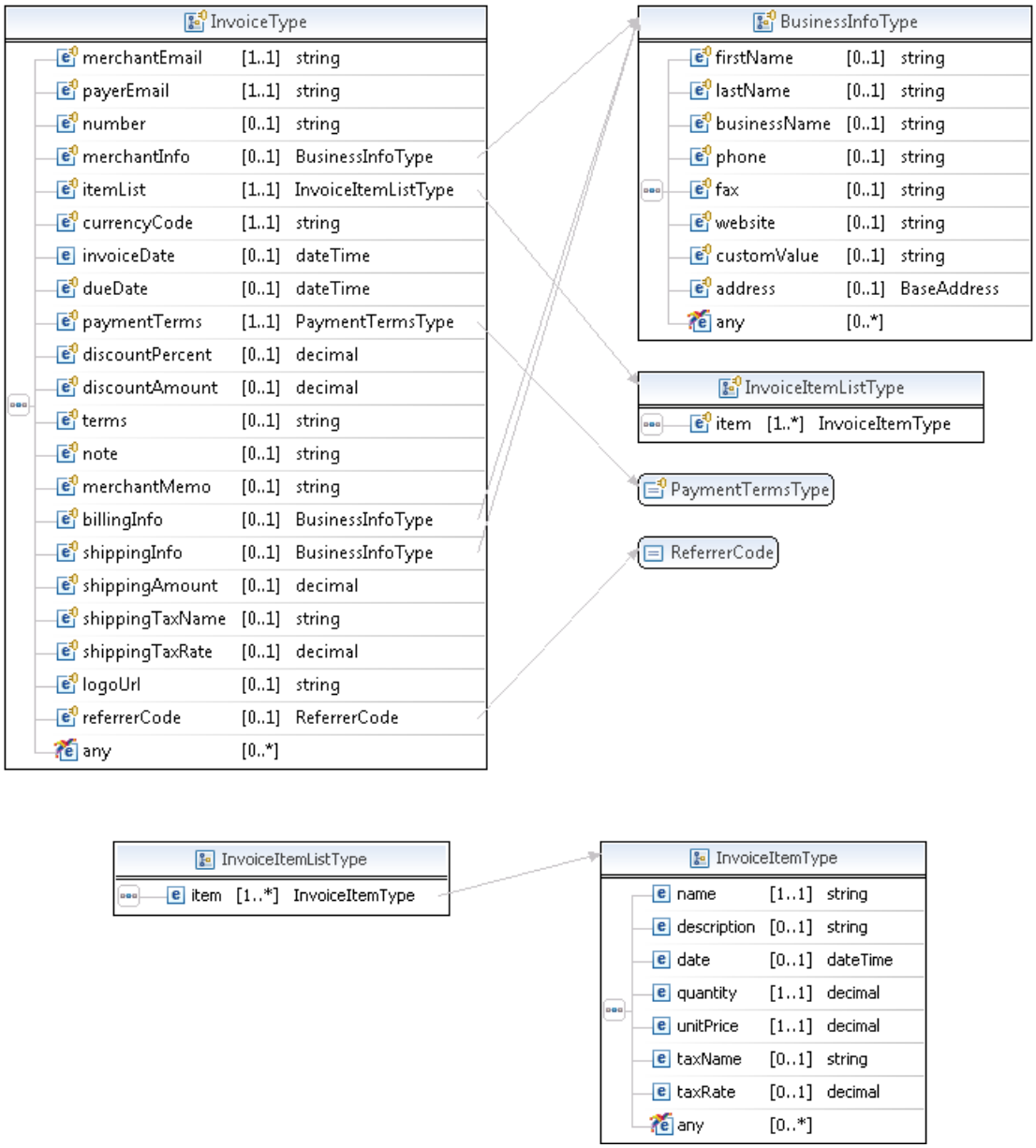
InvoiceType
merchantEmail [1..1] string
payerEmail [1..1] string
number [0..1] string
merchantInfo [0..1] BusinessInfoType
itemList [1..1] InvoiceItemListType
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invoiceDate [0..1] dateTime
dueDate [0..1] dateTime
paymentTerms [1..1] PaymentTermsType
discountPercent [0..1] decimal
discountAmount [0..1] decimal
terms [0..1] string
note [0..1] string
merchantMemo [0..1] string
billingInfo [0..1] BusinessInfoType
shippingInfo [0..1] BusinessInfoType
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shippingTaxRate [0..1] decimal
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PaymentTermsType
ReferrerCode
InvoiceItemListType
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description [0..1] string
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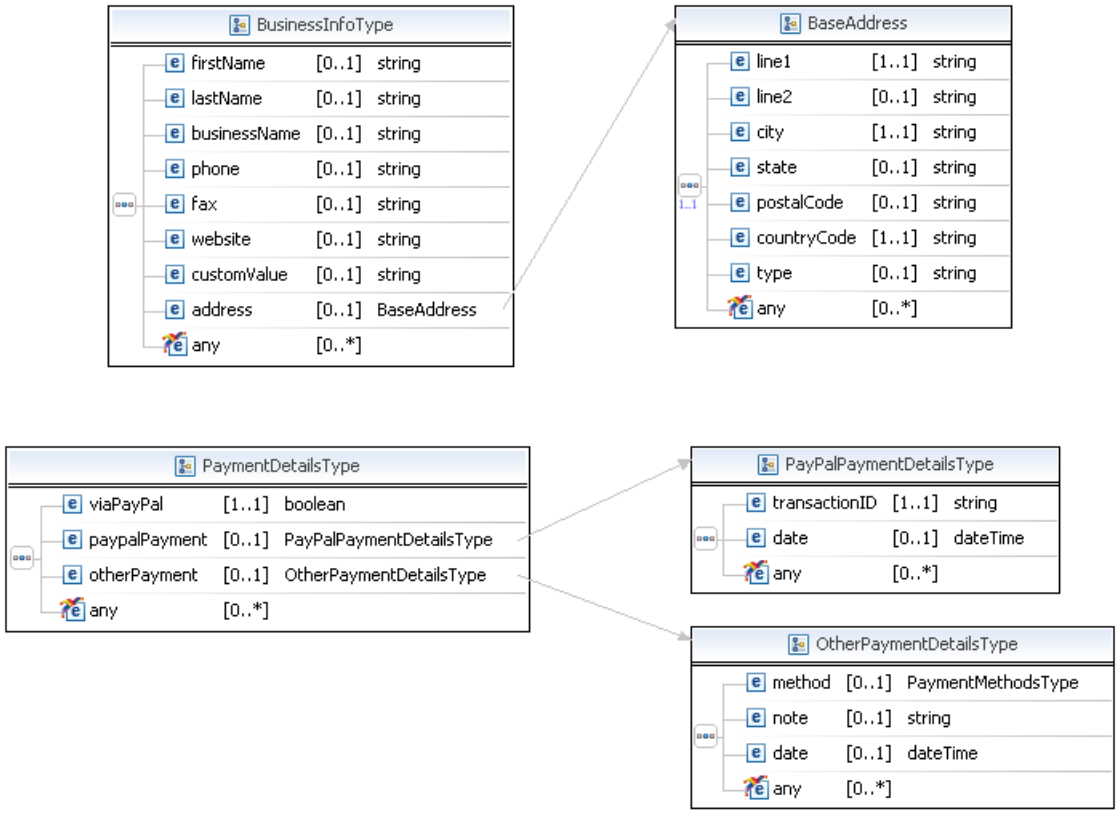
unitPrice [1..1] decimal
taxName [0..1] string
taxRate [0..1] decimal
any [0..*]



ResponseEnvelope Fields

Field	Description
ack	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
build	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
correlationId	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

Field	Description

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

GetInvoiceDetailsResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoice`	`xs:string` ID of the created invoice.
`invoiceDetails`	`inv:InvoiceDetailsType` Details about the invoice status and state change dates.
`paymentDetails`	`inv:PaymentDetailsType` Payment details about the invoice.
`refundDetails`	`inv:PaymentRefundDetailsType` The requested invoice refund details.
`invoiceURL`	`xs:string` URL location where merchants view the invoice details.

InvoiceType Fields

Field	Description
`merchantEmail`	`xs:string` Merchant email address.
`payerEmail`	`xs:string` Payer email address.
`number`	`xs:string` Unique identifier for the invoice.
`merchantInfo`	`inv:BusinessInfoType` Company contact information of the merchant company sending the invoice.

Field	Description
`itemList`	`inv:InvoiceItemListType` List of items included in this invoice.
`currencyCode`	`xs:string` Currency used for all invoice item amounts and totals.
`invoiceDate`	`xs:dateTime` Date on which the invoice is enabled.
`dueDate`	`xs:dateTime` Date on which the invoice payment is due.
`paymentTerms`	`inv:PaymentTermsType` Terms by which the invoice payment is due. It is one of the following values: • `DueOnReceipt` – Payment is due when the payer receives the invoice. • `DueOnDateSpecified` – Payment is due on the date specified in the invoice. • `Net10` – Payment is due 10 days from the invoice date. • `Net15` – Payment is due 15 days from the invoice date. • `Net30` – Payment is due 30 days from the invoice date. • `Net45` – Payment is due 45 days from the invoice date.
`discountPercent`	`xs:decimal` Discount percent applied to the invoice.
`discountAmount`	`xs:decimal` Discount amount applied to the invoice, if any. If `discountPercent` is provided, `discountAmount` is ignored.
`terms`	`xs:string` General terms for the invoice.
`note`	`xs:string` Note to the payer company.
`merchantMemo`	`xs:string` Memo for bookkeeping that is private to the merchant.
`billingInfo`	`inv:BusinessInfoType` Billing information for the payer.
`shippingInfo`	`inv:BusinessInfoType` Shipping information for the payer.
`shippingAmount`	`xs:decimal` Cost of shipping.
`shippingTaxName`	`xs:string` Name of the applicable tax on shipping cost.

Field	Description
`shippingTaxRate`	`xs:decimal` Rate of the applicable tax on shipping cost.
`logoURL`	`xs:string` External image URL of the invoice logo, if any.
`referrerCode`	`xs:string` Build Notification (BN) code for tracking transactions with a particular partner.

InvoiceDetailsType Fields

Field	Description
`status`	`inv:StatusType` Status of the invoice.
`totalAmount`	`xs:decimal` Total amount of the invoice (cost of items, shipping, and tax, less any discount). The invoicing system sets this field and ignores any changes made by API callers.
`origin`	`inv:OriginType` Indicates whether the invoice was created by the website or an API call.
`createdDate`	`xs:dateTime` Date when the invoice was created.
`createdBy`	`xs:string` Account that created the invoice.
`canceledDate`	`xs:dateTime` Date when the invoice was canceled, if canceled.
`canceledByActor`	`xs:ActorType` Actor who canceled the invoice.
`canceledBy`	`xs:string` Account that canceled the invoice.
`lastUpdatedDate`	`xs:dateTime` Date when the invoice was last updated.
`lastUpdatedBy`	`xs:string` Account that last edited the invoice.
`firstSentDate`	`xs:dateTime` Date when the invoice was first sent.

Field	Description
`lastSentDate`	`xs:dateTime` Date when the invoice was last sent.
`lastSentBy`	`xs:string` Account that last sent the invoice.
`paidDate`	`xs:dateTime` Date when the invoice was paid, if paid.

PaymentDetailsType Fields

Field	Description
`viaPayPal`	`xs:boolean` Returns `True` if the invoice was paid by PayPal.
`paypalPayment`	`inv:PayPalPaymentDetailsType` PayPal payment details about the invoice.
`otherPayment`	`inv:OtherPaymentDetailsType` Offline payment details about the invoice.

PayPalPaymentDetailsType Fields

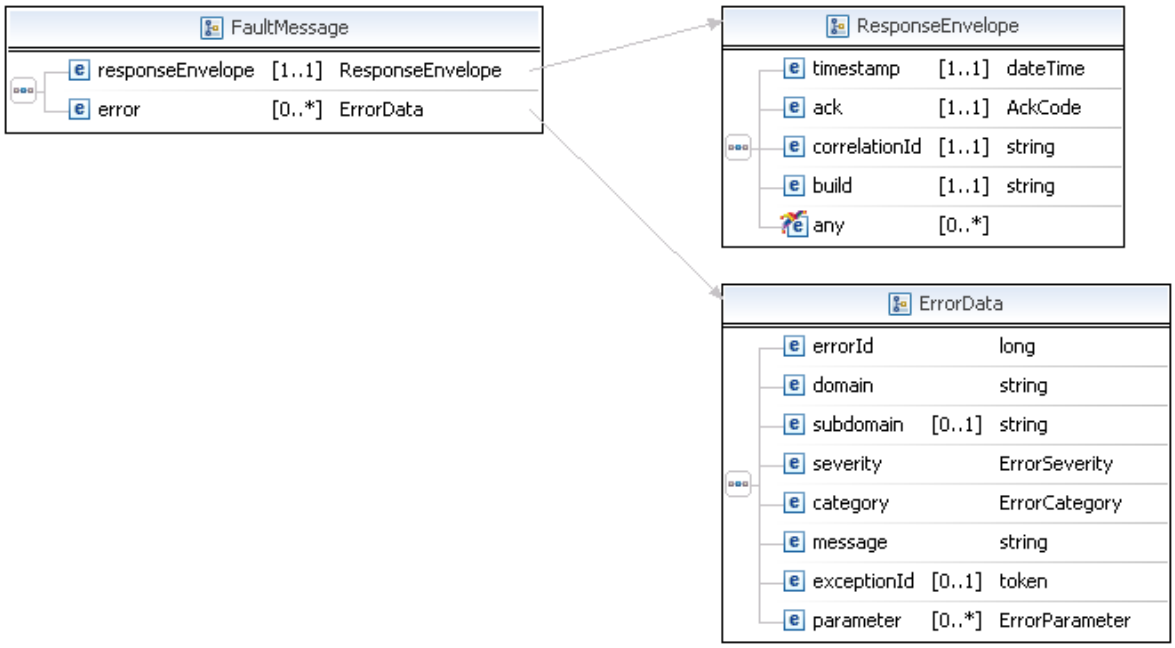
Field	Description
`transactionID`	`xs:string` Transaction ID of the PayPal payment.
`date`	`xs:dateTime` Date when the invoice was paid.

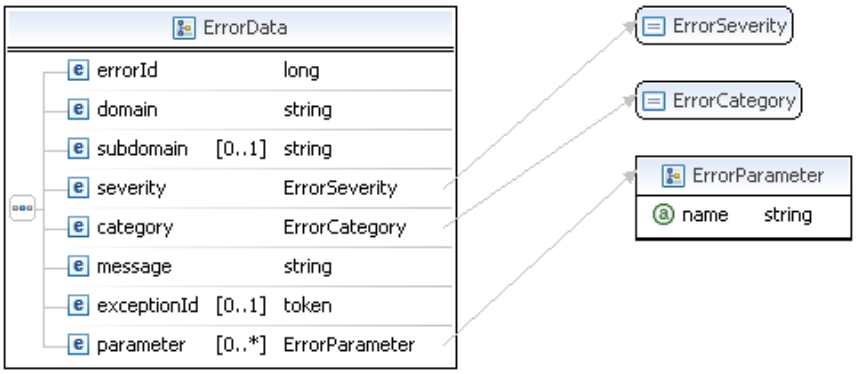
OtherPaymentDetailsType Fields

Field	Description
`method`	`inv:PaymentMethodsType` *(Optional)* Method that can be used to mark an invoice as paid when the payer pays offline. It is one of the following values: • `BankTransfer` – Payment is made by a bank transfer. • `Cash` – Payment is made in cash. • `Check` – Payment is made by check. • `CreditCard` – Payment is made by a credit card. • `DebitCard` – Payment is made by a debit card. • `Other` – Payment is made by a method not specified in this list. • `PayPal` – Payment is made by PayPal. • `WireTransfer` – Payment is made by a wire transfer.
`note`	`xs:string` *(Optional)* Optional note associated with the payment.
`date`	`xs:dateTime` *(Required)* Date when the invoice was paid.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.





FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.

Field	Description
severity	common:ErrorSeverity The severity of the error encountered. Possible values are: • Error – Processing of the request was interrupted • Warning – Processing of the request was completed
subdomain	This field is not used.

ResponseEnvelope Fields

Field	Description
ack	common:AckCode Acknowledgement code. It is one of the following values: • Success – The operation completed successfully. • Failure – The operation failed. • SuccessWithWarning – The operation completed successfully; however, there is a warning message. • FailureWithWarning – The operation failed with a warning message.
build	xs:string Build number. It is used only by PayPal Merchant Technical Support.
correlationId	xs:string Correlation identifier. It is a 13-character, alphanumeric string (for example, db87c705a910e) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.
timestamp	xs:datetime Date on which the response was sent, for example: 2012-04-02T22:33:35.774-07:00 **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

GetInvoiceDetails API Errors

Code	Message	Additional Information
520002	Internal error.	

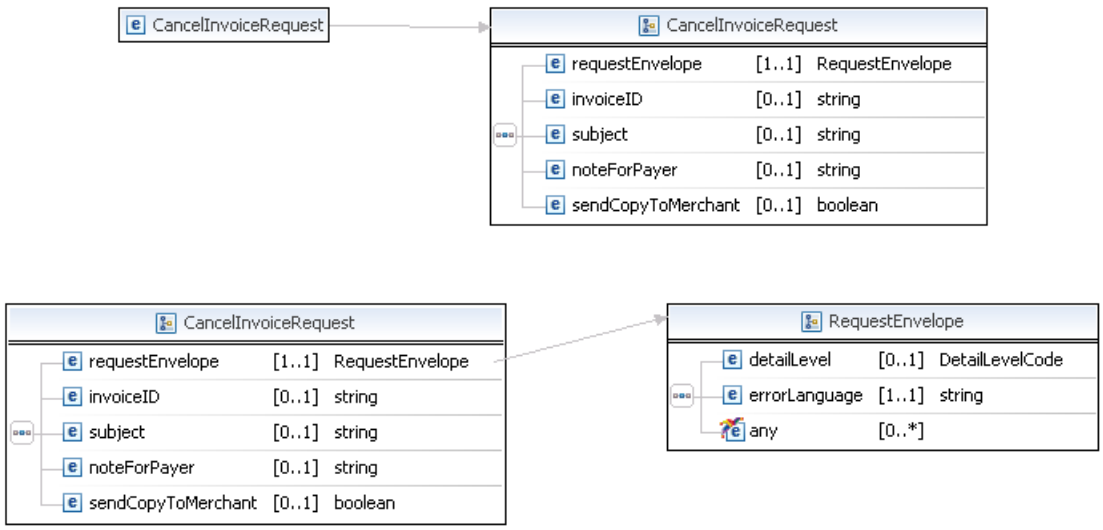
Code	Message	Additional Information
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570058	Invalid token.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580047	Invoice does not exist.	

8 CancelInvoice API Operation

Use the `CancelInvoice` API operation to cancel an invoice.

CancelInvoiceRequest Message

Use the `CancelInvoiceRequest` message to cancel an invoice.



RequestEnvelope Fields

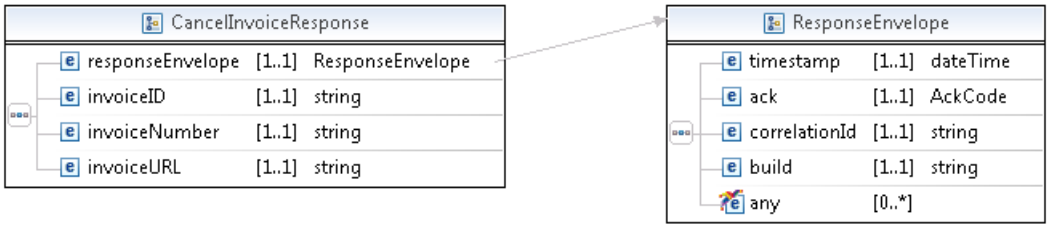
Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

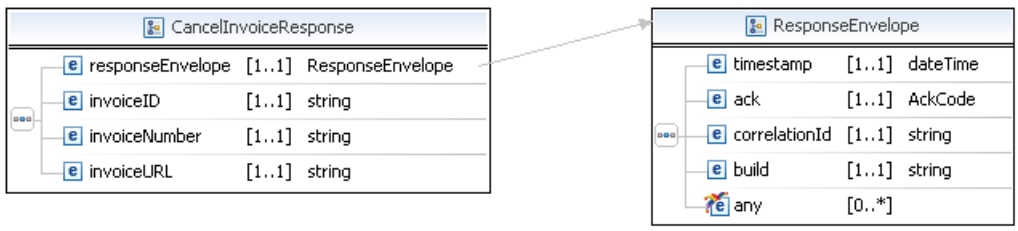
CancelInvoiceRequest Fields

Field	Description
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.
`invoiceID`	`xs:string` *(Optional)* ID of the invoice.
`subject`	`xs:string` *(Optional)* Subject of the cancelation notification.
`noteForPayer`	`xs:string` *(Optional)* Note to send payer within the cancelation notification.
`sendCopyToMerchant`	`xs:boolean` *(Optional)* Indicates whether to send a copy of the cancelation notification to the merchant. It is one of the following values: • `false` – Do not send a copy of the cancelation notification to the merchant (default). • `true` – Send a copy of the cancelation notification to the merchant.

CancelInvoiceResponse Message

Use the `CancelInvoiceResponse` message to cancel an invoice.





ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

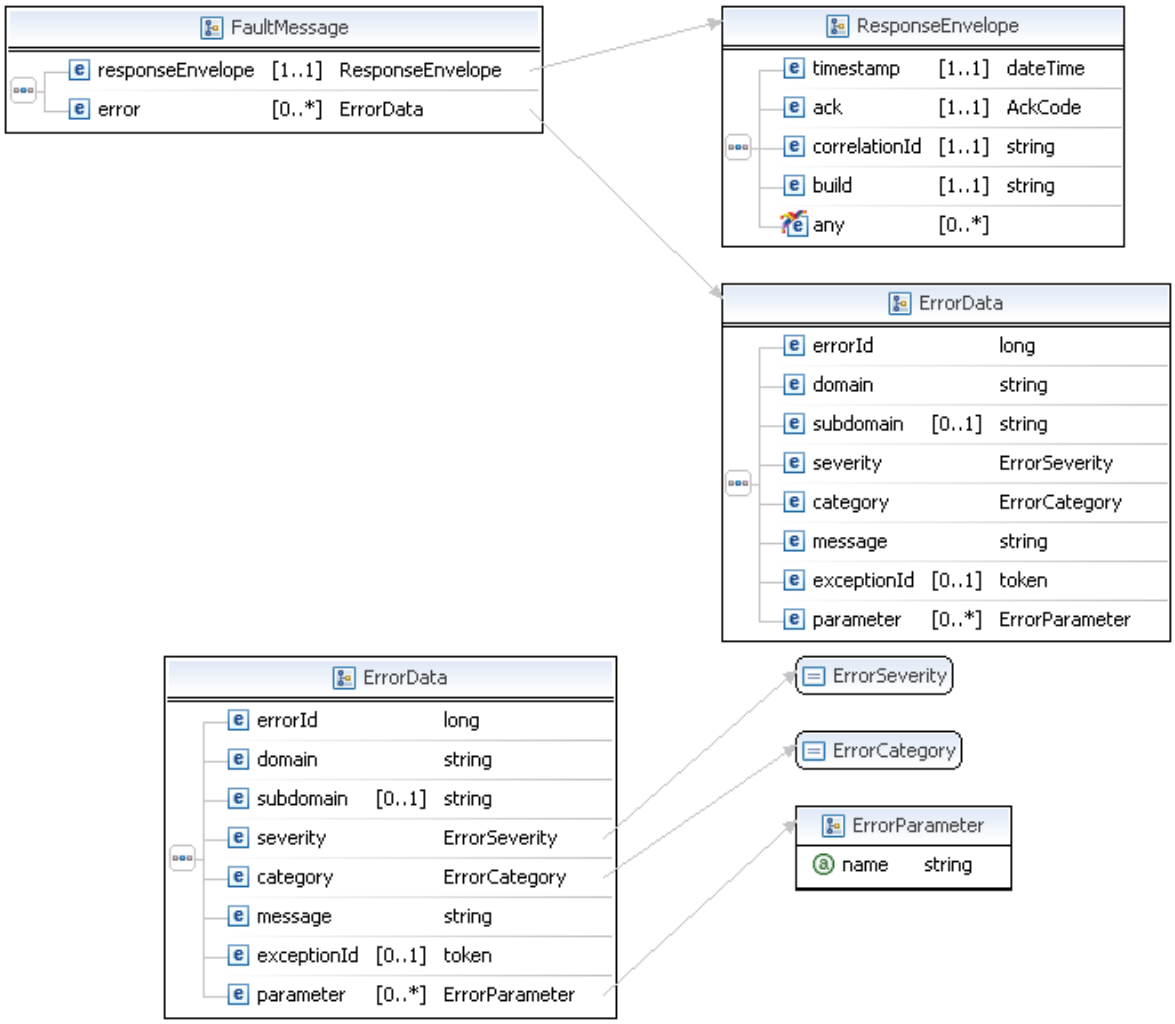
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

CancelInvoiceResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceID`	`xs:string` ID of the canceled invoice.
`invoiceNumber`	`xs:string` Number of the canceled invoice.
`invoiceURL`	`xs:string` URL location where merchants view the invoice details.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.



FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

CancelInvoice API Errors

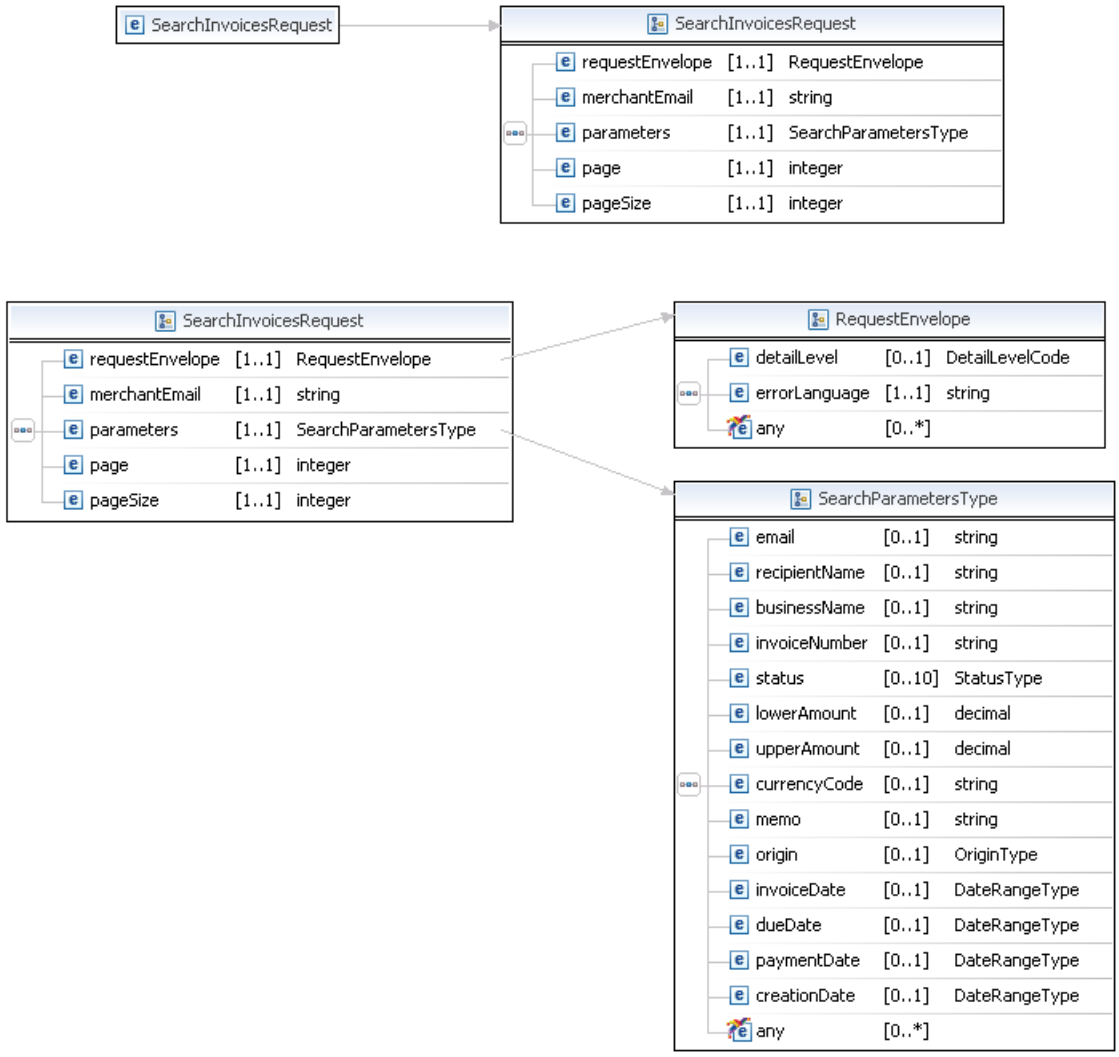
Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570058	Invalid token.	
570061	Invoice cannot be canceled since it has already been paid.	
570062	The invoice has already been canceled.	
570063	A draft invoice cannot be canceled.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580047	Invoice does not exist.	

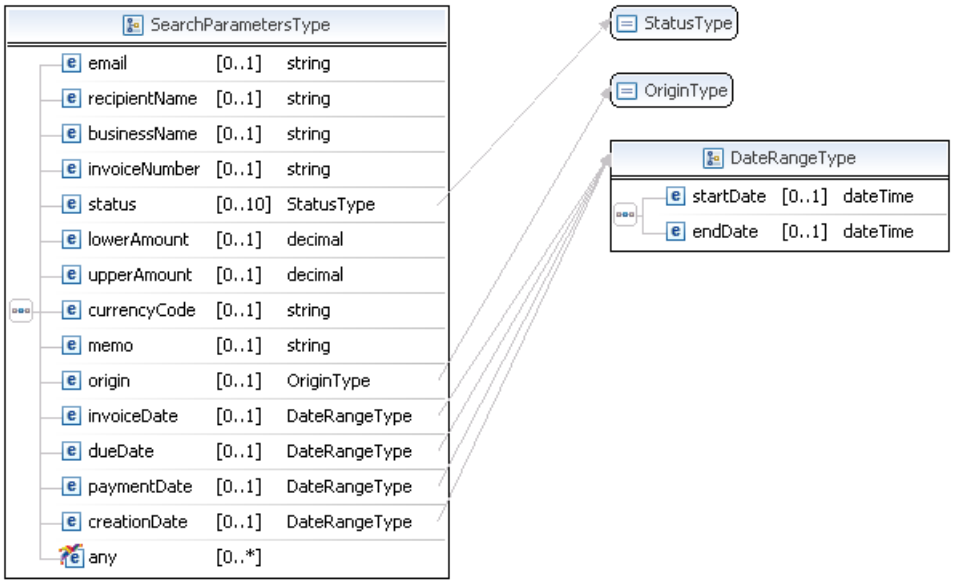
9 SearchInvoices API Operation

Use the `SearchInvoice` API operation to search an invoice.

SearchInvoicesRequest Message

Use the `SearchInvoiceRequest` message to search an invoice.





RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

SearchInvoicesRequest Fields

Field	Description
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.
`merchantEmail`	`xs:string` *(Required)* Email address of invoice creator.
`parameters`	`inv:SearchParametersType` *(Required)* Parameters constraining the search.

Field	Description
page	xs:integer *(Required)* Page number of result set, starting with 1.
pageSize	xs:integer *(Required)* Number of results per page, between 1 and 100.

SearchParametersType Fields

Field	Description
email	xs:string *(Optional)* Email search string.
recipientName	xs:string *(Optional)* Recipient search string.
businessName	xs:string *(Optional)* Company search string.
invoiceNumber	xs:integer *(Optional)* Invoice number search string.
status	inv:statusType *(Optional)* Invoice status search.
lowerAmount	xs:decimal *(Optional)* Invoice amount search. It specifies the smallest amount to be returned. If you pass a value for this field, you must also pass a currencyCode value.
upperAmount	xs:decimal *(Optional)* Invoice amount search. It specifies the largest amount to be returned. If you pass a value for this field, you must also pass a currencyCode value.
currencyCode	xs:string *(Optional)* Currency used for lower and upper amounts. It is required when you specify lowerAmount or upperAmount.
memo	xs:string *(Optional)* Invoice memo search string.
origin	inv:originType *(Optional)* Indicates whether the invoice was created by the website or by an API call. It is one of the following values: • Web – The invoice was created on paypal.com. • API – The invoice was created by an Invoicing Service API call.

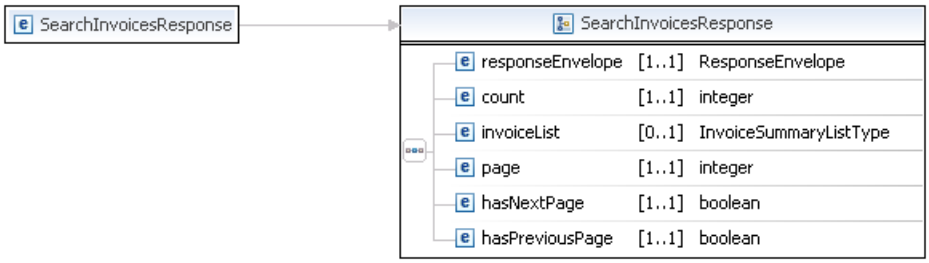
Field	Description
`invoiceDate`	`inv:dateRangeType` *(Optional)* Invoice date range filter.
`dueDate`	`inv:dateRangeType` *(Optional)* Invoice due date range filter.
`paymentDate`	`inv:dateRangeType` *(Optional)* Invoice payment date range filter.
`creationDate`	`inv:dateRangeType` *(Optional)* Invoice creation date range filter.

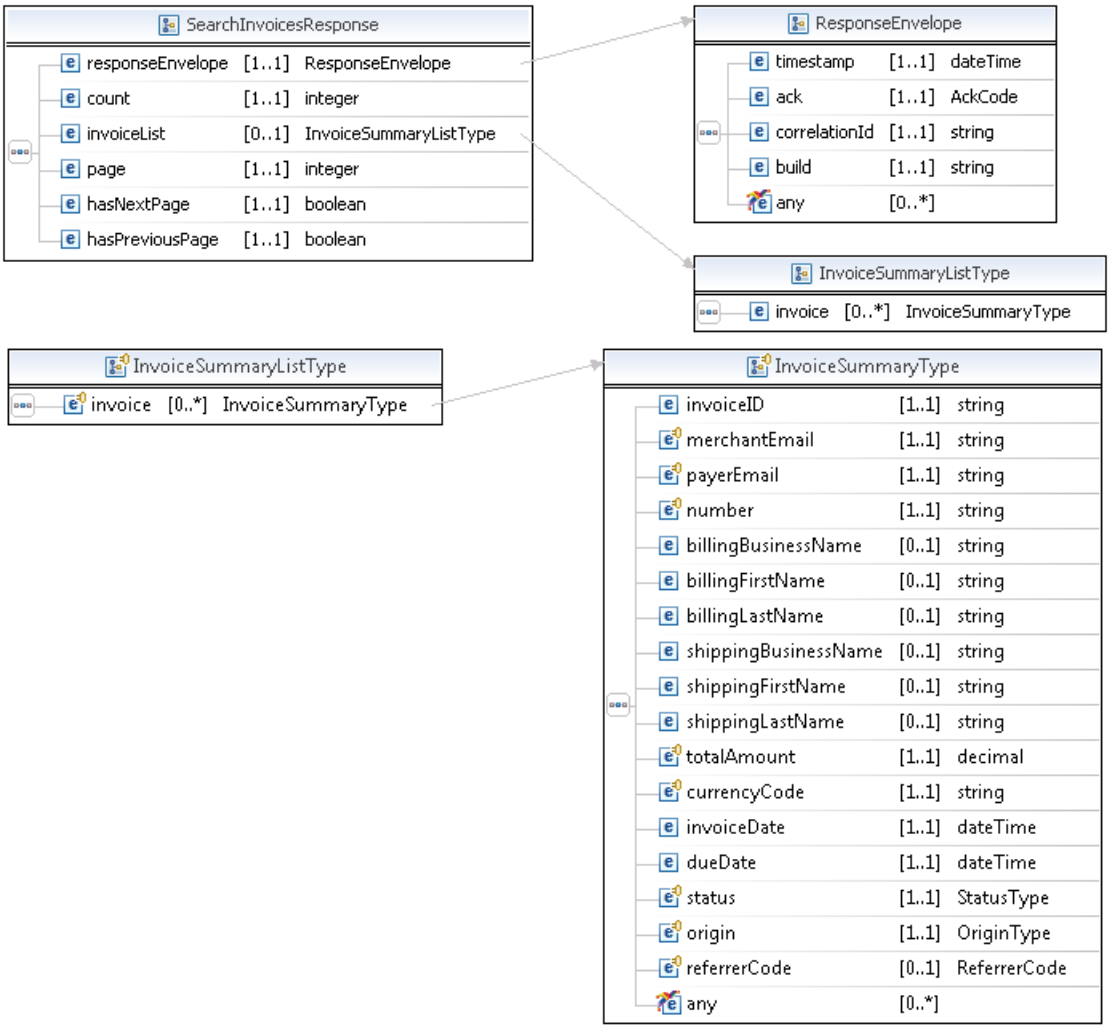
DateRangeType Fields

Field	Description
`startDate`	`xs:dateTime` *(Optional)* Start of the date range.
`endDate`	`xs:dateTime` *(Optional)* End of the date range.

SearchInvoicesResponse Message

The `SearchInvoicesResponse` message contains information returned in response to a `SearchInvoicesRequest` message.





ResponseEnvelope Fields

Field	Description
ack	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
build	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

SearchInvoicesResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`count`	`xs:integer` Number of invoices that matched the request.
`invoiceList`	`inv:invoiceSummaryList` Page of invoice summaries that matched the list.
`page`	`xs:string` URL location where the merchant views invoice details.
`hasNextPage`	`xs:boolean` `True` if another page of invoice summary results exists.
`hasPreviousPage`	`xs:boolean` `True` if a previous page of the invoice summary results exists.

InvoiceSummaryListType Fields

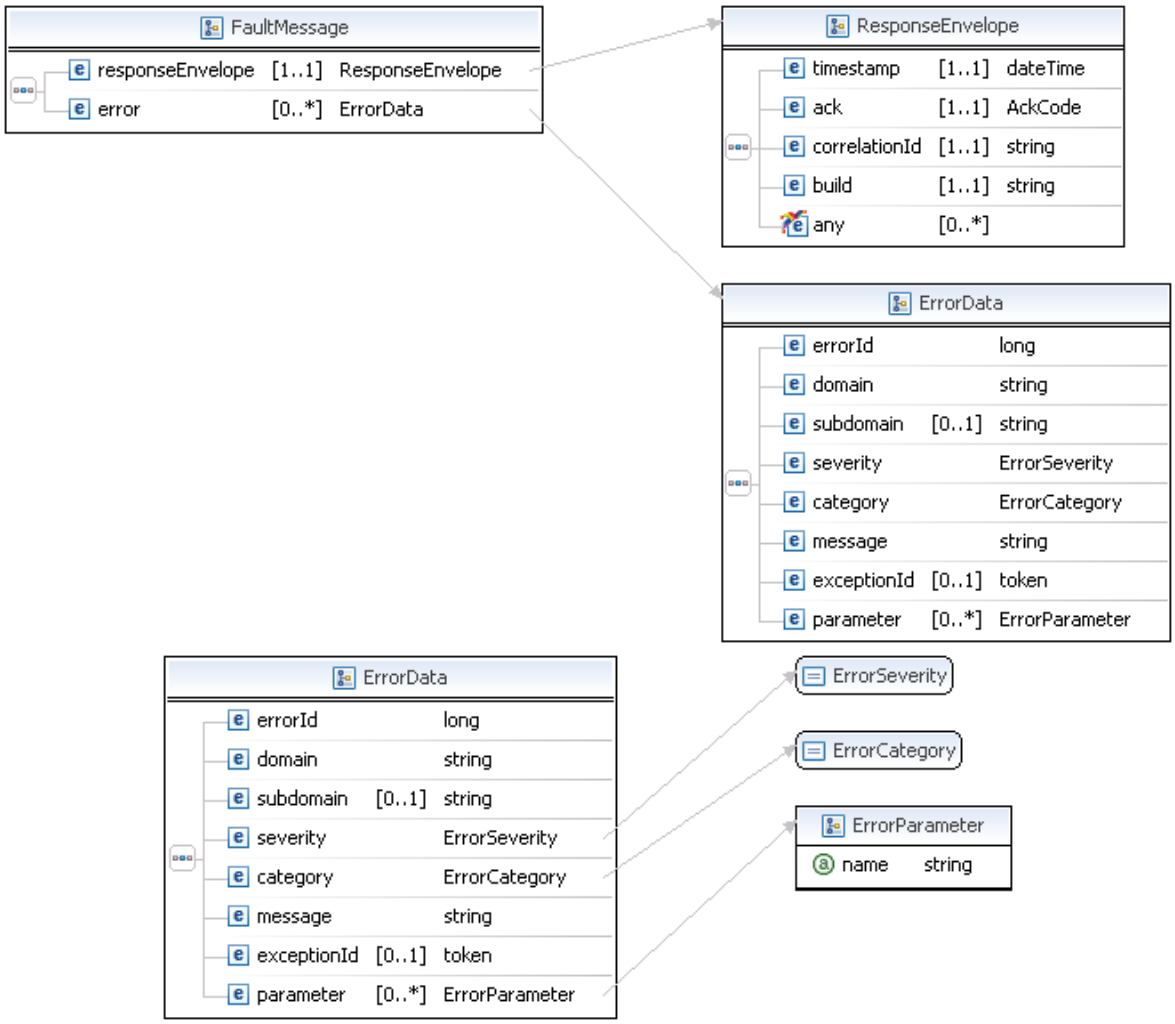
Field	Description
`invoice`	`inv:InvoiceSummaryType` Summary of invoice contents.

InvoiceSummaryType Fields

Field	Description
`invoiceID`	`xs:string` ID of the invoice.
`merchantEmail`	`xs:string` Merchant email address.
`payerEmail`	`xs:string` Payer email address.
`number`	`xs:string` Unique identifier for the invoice.
`billingBusinessName`	`xs:string` Company contact information of the merchant company sending the invoice.
`billingFirstName`	`xs:string` First name of the business information.
`billingLastName`	`xs:string`
`shippingBusinessName`	`xs:string` Business name of the shipping information.
`shippingFirstName`	`xs:string` First name of the shipping information.
`shippingLastName`	`xs:string` Last name of the shipping information.
`totalAmount`	`xs:decimal` Total amount of the invoice.
`currencyCode`	`xs:string` Currency used for all invoice item amounts and totals.
`invoiceDate`	`xs:dateTime` Date on which the invoice is enabled.
`dueDate`	`xs:dateTime` Date on which the invoice payment is due.
`status`	`xs:statusType` Status of the invoice.
`referrerCode`	`xs:string` Build Notification (BN) code for tracking transactions with a particular partner.
`origin`	`inv:originType` Indicates whether the invoice was created by the website or by an API call.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.



FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
correlationId	xs:string Correlation identifier. It is a 13-character, alphanumeric string (for example, db87c705a910e) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.
timestamp	xs:datetime Date on which the response was sent, for example: 2012-04-02T22:33:35.774-07:00 **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

SearchInvoices API Errors

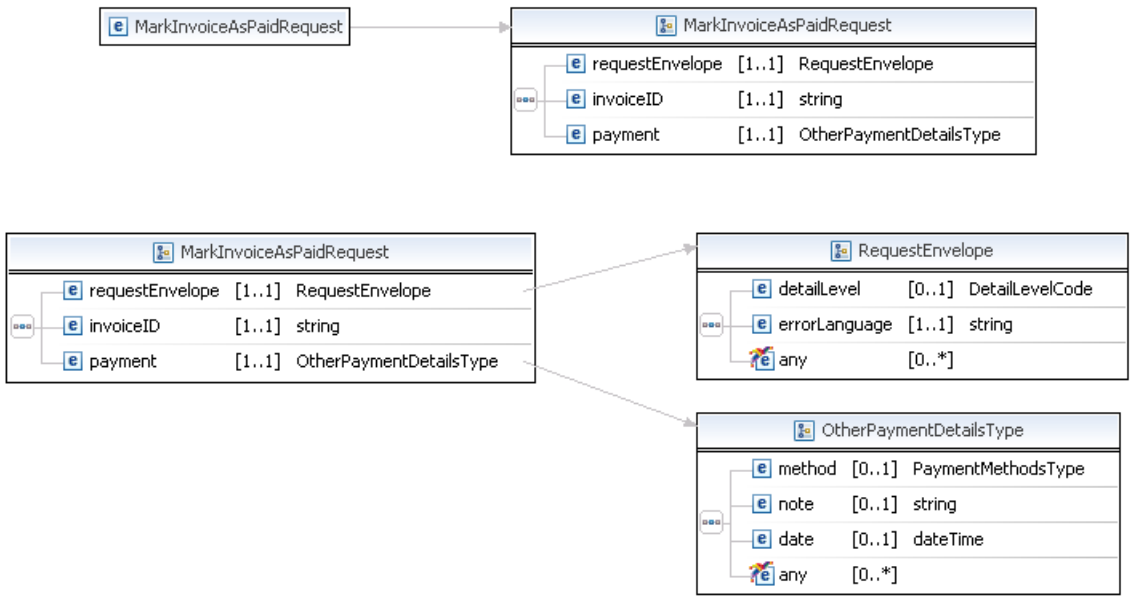
Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
570058	Invalid token.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	

10 MarkInvoiceAsPaid API Operation

Use the `MarkInvoiceAsPaid` API operation to mark an invoice as paid.

MarkInvoiceAsPaidRequest Message

Use the `MarkInvoiceAsPaidRequest` message to mark an invoice as paid.



RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).

Field	Description
errorLanguage	xs:string *(Required)* RFC 3066 language in which error messages are returned; by default it is en_US, which is the only language currently supported.

MarkInvoiceAsPaidRequest Fields

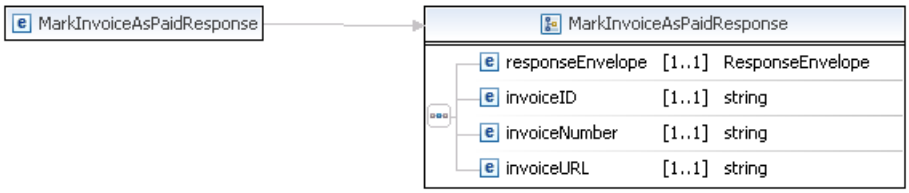
Field	Description
invoiceID	xs:string *(Required)* ID of the invoice to mark as paid.
payment	inv:OtherPaymentDetailsType *(Required)* Details of the payment made against this type.
requestEnvelope	common:requestEnvelope *(Required)* Information common to each API operation, such as the language in which an error message is returned.

OtherPaymentDetailsType Fields

Field	Description
method	inv:PaymentMethodsType *(Optional)* Method that can be used to mark an invoice as paid when the payer pays offline. It is one of the following values: • BankTransfer – Payment is made by a bank transfer. • Cash – Payment is made in cash. • Check – Payment is made by check. • CreditCard – Payment is made by a credit card. • DebitCard – Payment is made by a debit card. • Other – Payment is made by a method not specified in this list. • PayPal – Payment is made by PayPal. • WireTransfer – Payment is made by a wire transfer.
note	xs:string *(Optional)* Optional note associated with the payment.
date	xs:dateTime *(Required)* Date when the invoice was paid.

MarkInvoiceAsPaidResponse Message

The `MarkInvoiceAsPaidResponse` message marks an invoice as paid.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

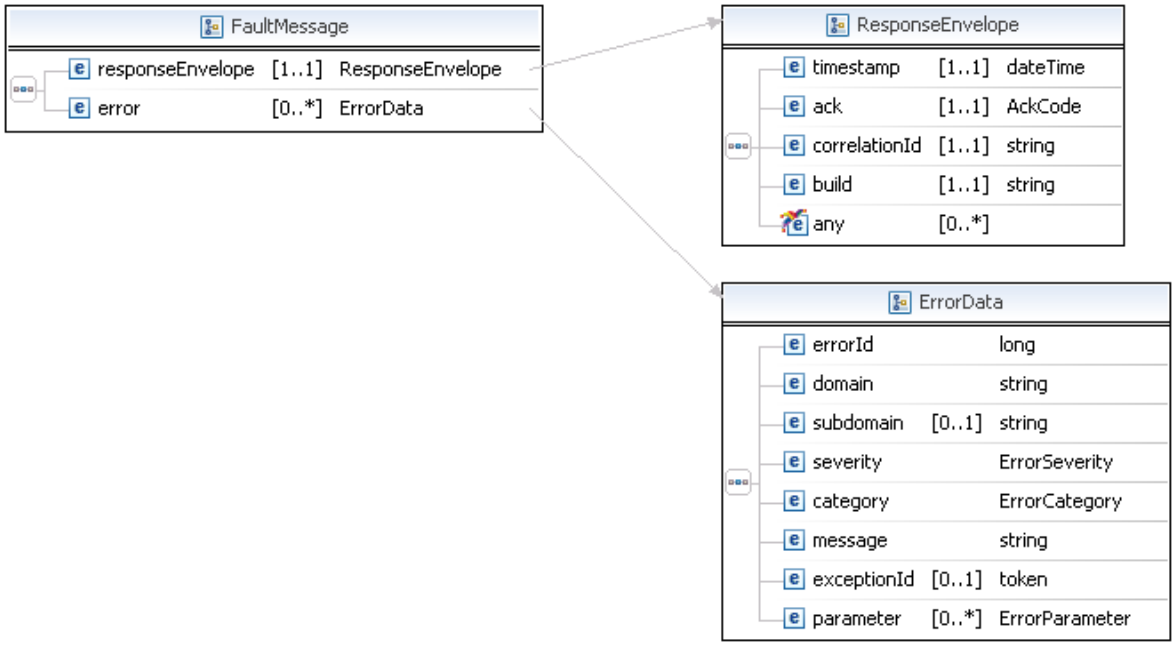
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

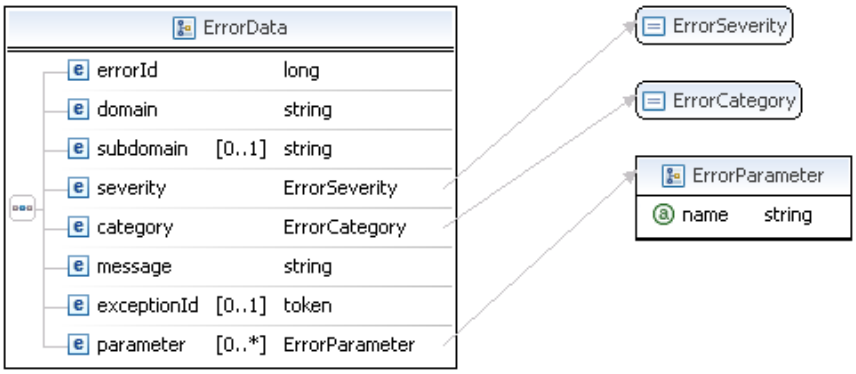
MarkInvoiceAsPaidResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceID`	`xs:string` ID of the invoice marked as paid.
`invoiceNumber`	`xs:string` Number of the invoice marked as paid.
`invoiceURL`	`xs:string` URL location where merchants view the invoice details.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.





FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.

Field	Description
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

MarkInvoiceAsPaid API Errors

Code	Message	Additional Information
520002	Internal error.	

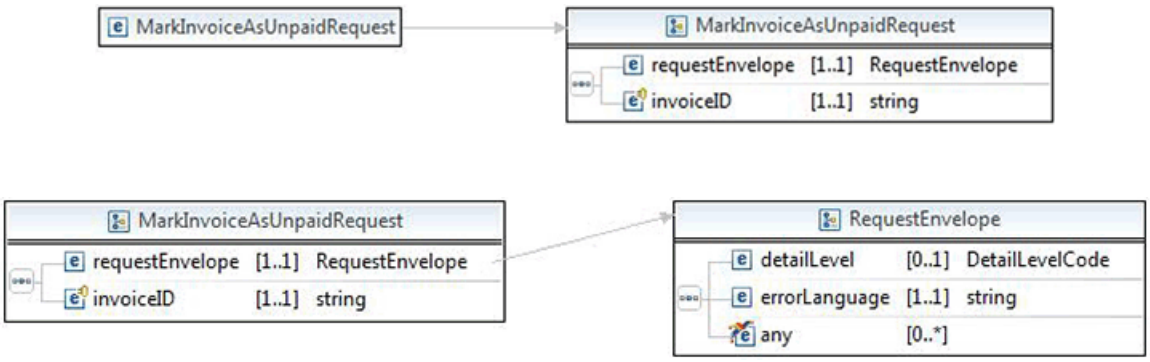
Code	Message	Additional Information
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570058	Invalid token.	
570065	Invoice cannot be marked as paid since it has already been paid.	
570066	The payment method of the invoice is invalid.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580047	Invoice does not exist.	

11 MarkInvoiceAsUnpaid API Operation

Use the `MarkInvoiceAsUnpaid` API operation to mark an invoice as unpaid.

MarkInvoiceAsUnpaidRequest Message

Use the `MarkInvoiceAsUnpaidRequest` message to mark an invoice as unpaid.



RequestEnvelope Fields

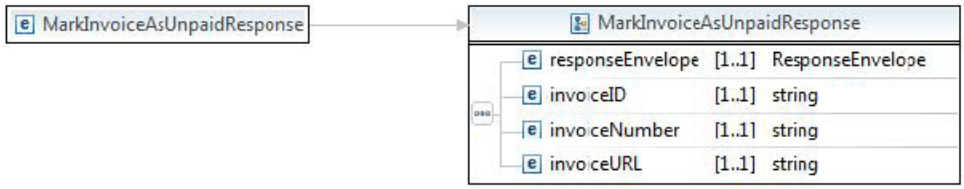
Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

MarkInvoiceAsUnpaidRequest Fields

Field	Description
`invoiceID`	`xs:string` *(Required)* ID of the invoice to mark as unpaid.
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.

MarkInvoiceAsUnpaidResponse Message

The `MarkInvoiceAsUnpaidResponse` message marks an invoice as unpaid.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

Field	Description

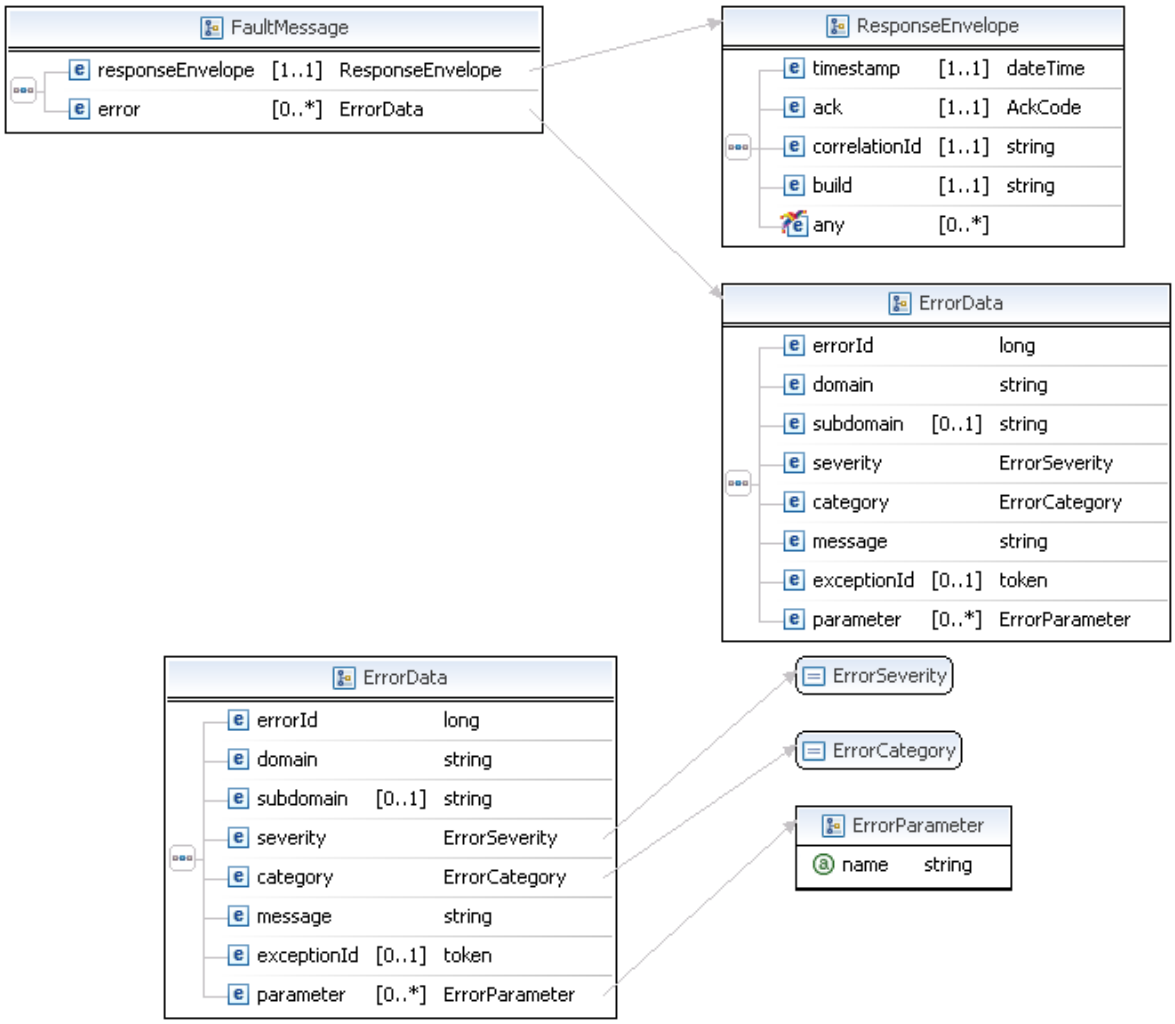
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

MarkInvoiceAsUnpaidResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceID`	`xs:string` ID of the invoice marked as unpaid.
`invoiceNumber`	`xs:string` Number of the invoice marked as unpaid.
`invoiceURL`	`xs:string` URL location where merchants view the invoice details.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.



FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

MarkInvoiceAsUnpaid API Errors

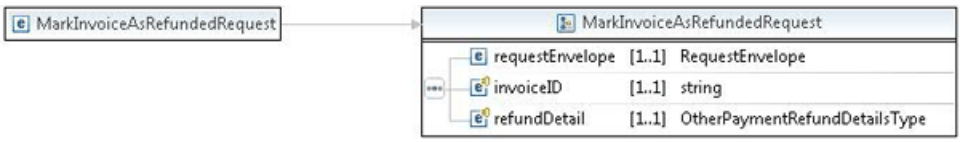
Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570058	Invalid token.	
570079	Invoice must be marked as paid before it can be marked as unpaid.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580047	Invoice does not exist.	

12 MarkInvoiceAsRefunded API Operation

Use the `MarkInvoiceAsRefunded` API operation to mark an invoice as refunded. This API operation can only be used for full refunds.

MarkInvoiceAsRefundedRequest Message

Use the `MarkInvoiceAsRefundedRequest` message to mark an invoice as refunded.



RequestEnvelope Fields

Field	Description
`detailLevel`	`common:DetailLevelCode` *(Optional)* Level of detail required by the client application for components. It is one of the following values: • `ReturnAll` – This value provides the maximum level of detail (default).
`errorLanguage`	`xs:string` *(Required)* RFC 3066 language in which error messages are returned; by default it is `en_US`, which is the only language currently supported.

MarkInvoiceAsRefundedRequest Fields

Field	Description
`invoiceID`	`xs:string` *(Required)* ID of the invoice to mark as refunded.
`refundDetail`	`inv:OtherPaymentRefundDetailsType` *(Required)* Details of the refund made against this invoice.

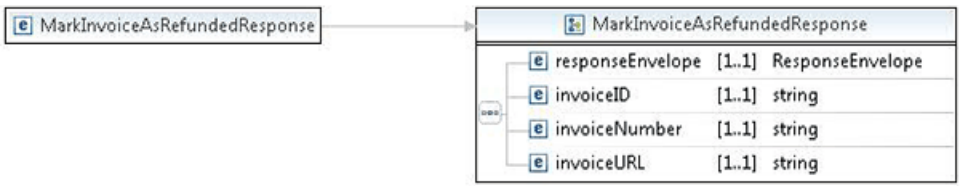
Field	Description
`requestEnvelope`	`common:requestEnvelope` *(Required)* Information common to each API operation, such as the language in which an error message is returned.

OtherRefundDetailsType Fields

Field	Description
`note`	`xs:string` *(Optional)* Optional note associated with the refund.
`date`	`xs:dateTime` *(Required)* Date when the invoice was marked as refunded.

MarkInvoiceAsRefundedResponse Message

The `MarkInvoiceAsRefundedResponse` message marks an invoice as refunded.



ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

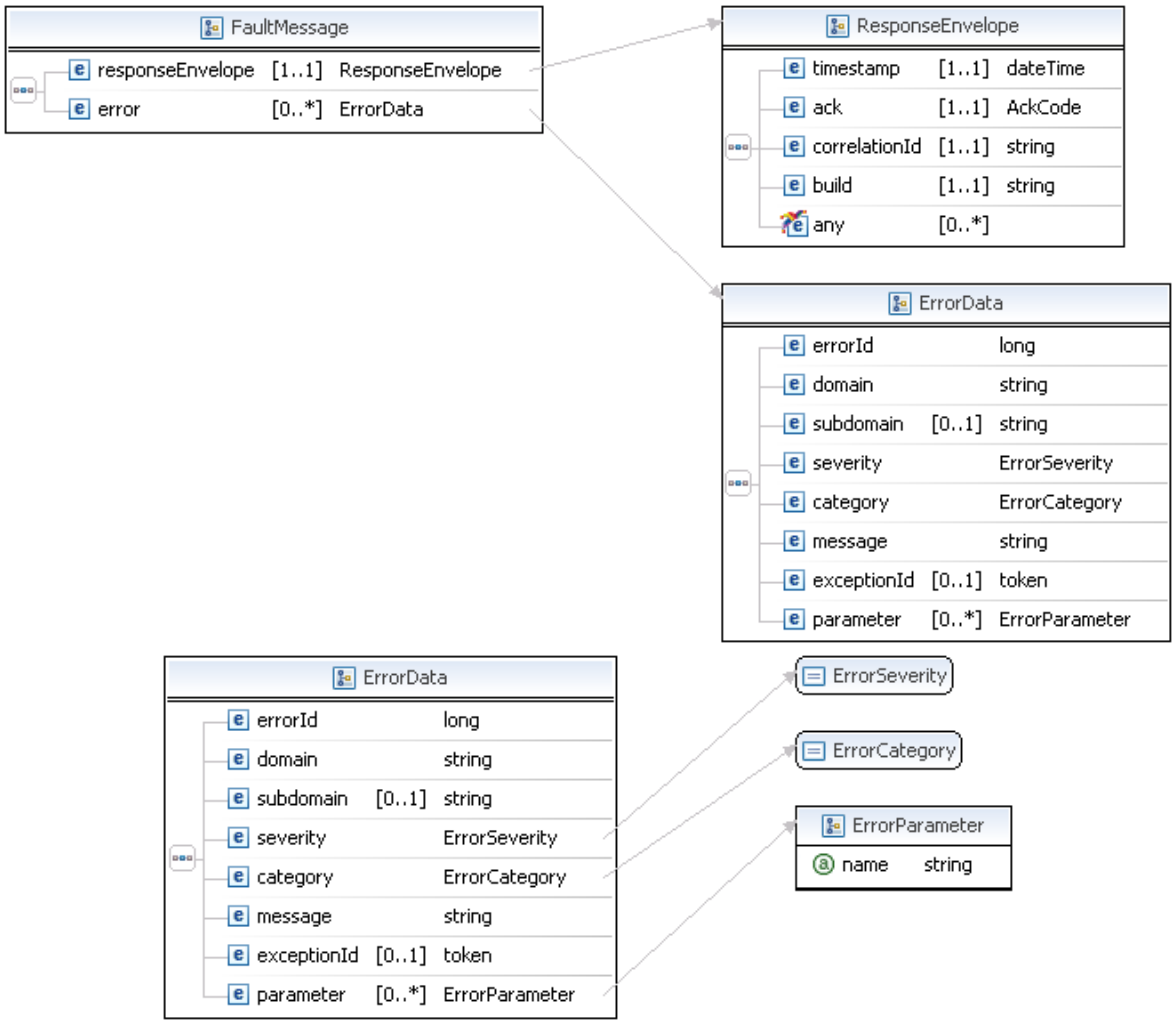
`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

MarkInvoiceAsRefundedResponse Fields

Field	Description
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.
`invoiceID`	`xs:string` ID of the invoice marked as refunded.
`invoiceNumber`	`xs:string` Number of the invoice marked as refunded.
`invoiceURL`	`xs:string` The URL of the details page of the invoice that was marked as refunded.

PPFault Message

The `PPFaultMessage` returns `ErrorData` and the `ResponseEnvelope` information to your application if an error occurs.



FaultMessage Fields

Field	Description
`error`	`common:ErrorData` Detailed error information.
`responseEnvelope`	`common:ResponseEnvelope` Common response information, including a timestamp and the response acknowledgement status.

ErrorData Fields

Field	Description
`category`	`common:ErrorCategory` The location where the error occurred. Possible values are: • `System` – The system encountered errors; try again • `Application` – The application encountered errors; try again • `Request` – The request was incorrect
`domain`	`xs:string` The domain to which this service belongs.
`errorId`	`xs:long` A 6-digit number that uniquely identifies a particular error.
`exceptionID`	This field is not used.
`message`	`xs:string` A description of the error.
`parameter`	`common:ErrorParameter` Represents contextual information about the error.
`severity`	`common:ErrorSeverity` The severity of the error encountered. Possible values are: • `Error` – Processing of the request was interrupted • `Warning` – Processing of the request was completed
`subdomain`	This field is not used.

ResponseEnvelope Fields

Field	Description
`ack`	`common:AckCode` Acknowledgement code. It is one of the following values: • `Success` – The operation completed successfully. • `Failure` – The operation failed. • `SuccessWithWarning` – The operation completed successfully; however, there is a warning message. • `FailureWithWarning` – The operation failed with a warning message.
`build`	`xs:string` Build number. It is used only by PayPal Merchant Technical Support.

Field	Description
`correlationId`	`xs:string` Correlation identifier. It is a 13-character, alphanumeric string (for example, `db87c705a910e`) that is used only by PayPal Merchant Technical Support. **NOTE:** You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

`timestamp`	`xs:datetime`
	Date on which the response was sent, for example:
	`2012-04-02T22:33:35.774-07:00`
	NOTE: You must log and store this data for every response you receive. PayPal Technical Support uses the information to assist with reported issues.

MarkInvoiceAsRefunded API Errors

Code	Message	Additional Information
520002	Internal error.	
520005	Authentication failed. API credentials are incorrect.	
520009	Account is restricted.	
550026	Partner did not create the invoice but attempted to access or modify it; a merchant's invoice can be accessed or modified only by the partner who created it.	
550027	Merchant cannot access or modify an invoice they did not create; an invoice can only be accessed or modified by the party who created it.	
570058	Invalid token.	
570080	Invoice must be marked as paid before it can be marked as refunded.	
570081	Refund date must occur after payment date.	
580022	This error code corresponds to validation error messages that deal with errors of supplied parameters.	
580047	Invoice does not exist.	

Revision History

The revision history identifies changes to the PayPal Invoicing Service documentation at a high level.

Date	Description
05/22/2012	Added two new APIs: MarkInvoiceAsUnpaid, MarkInvoiceAsRefunded.
01/24/2012	Clarified use of and examples for image URL.
09/19/2011	Initial release draft.

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